THE HARMONIC CONQUEST OF SPACE

BRUCE L. CATHIE Author of The Energy Grid and Harmonic 288: The Pulse of the Universe

In 1952, Captain Bruce Cathie of New Zealand's National Airways Corporation, with a group of friends, made a prolonged evening sighting of a UFO at Mangere, Auckland, New Zealand. Captain Cathie's research into UFOs resulted in the publishing of several books which attracted worldwide interest in the subject.

In his first book, *Harmonic 33*, he postulated the existence of a world magnetic grid, proving this by mathematics and showing that it is directly associated not only with UFO sightings and activities, but also with such diverse matters as gravity anomaly areas, and ancient mystery sites such as Stonchenge, and the Great Pyramid in Egypt.

His second book, *Harmonic 695*, carried his research a stage further, and demonstrated that the grid and some of its powers are known and being used by the "atomic" nations, but kept under a veil of secrecy.

In his third and fourth books, *The Pulse of the Universe: Harmonic* 288 and *The Bridge to Infinity: Harmonic* 371244, Cathie takes another great stride forward. He probes into the fabric of space-time itself, throws new light on Einstein's famous $E=mc^2$, and discusses the harmonics of light, sound, temperature, gravity, lasers, the periodic table, plant growth and human health.

The Harmonic Conquest of Space recaps and further progresses research into the world energy grid system and the geometric nature of the Universe. Bruce Cathie compiles all the discovered harmonic unified values into a set of unified tables for use in research in many areas of scientific interest.

"After all these years, the latest computer tables indicate that the geometric harmonic of 695, published in my earlier work, is in fact a direct conversion of gravity acceleration. These tables show quite clearly that the harmonic of gravity acceleration is the reciprocal of the harmonic of the acceleration, or deceleration, of light. The Universe is now open to us. We can reach any part of it by means of the harmonic conquest of space."

Bruce L. Cathie

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DEFINITIONS OF TERMS

Harmony and harmonic, as defined by the Britannica World Standard Dictionary:

1. Harmony: a state of order, agreement or completeness in the relations of things of parts of a whole to each other.

2. Harmonic: producing, characterised by or pertaining to harmony.

a. Music: pertaining to a tone whose rate of vibration is an exact multiple of a given primary tone.

b. Mathematical: derived from or originally suggested by the numerical relations between the vibrations of the musical harmonies or overtones of the same fundamental tone; harmonic functions.

c. Physics: any component of a periodic quantity which is an integral multiple of the fundamental frequency.

In this book, I discuss the fundamental harmonies of the vibrational frequencies which form the building blocks of our immediate Universe and those of the theoretical anti-Universe, which modern scientists have postulated as existing in mirror-like image of our own. I theorise that the whole of physical reality which is tangible to us is formed from the basic geometric harmonies or harmonics of the angular velocities, or waveforms, of light. From these basic harmonies or resonating wave-forms, myriad other waves are created which blend in sympathetic resonance, one with the other, thus forming the physical structures. Reality, in essence, is similar to a hologram.

Einstein stated that the geometric structure of space-time determines the physical processes. I theorise that space and time manifest from the geometric harmonies of the wave-motions of light—the maximum fundamental harmonic of light, in geometric terms, being an angular velocity of 144,000 minutes of arc or nautical miles per grid second in relation to the Earth's surface and there being 97,000 grid seconds to one revolution of the Earth.

It follows that the 'speed' of light, and time, would be directly related to one minute of arc on the surface of any other spherical planetary body. The 'speed' of light, in fact, is not a constant. It depends on the observer's relative position in space.

Introduction

The events which led up to the writing of this, my fifth book, began in 1952 when my life changed dramatically. I was then a pilot with the New Zealand National Airways Corporation, and one evening, with a group of friends, I had a prolonged sighting of a UFO over the Manukau Harbour in Auckland, New Zealand.

The object carried out manoeuvres that no known man-made vehicle could accomplish at that time. The thing, whatever it was, had an intensely brilliant white light with a smaller glowing red light some distance from it, and for about twenty minutes held me and the other witnesses spellbound as it went through a series of right-angle turns, then disappeared into a clear evening sky.

Ever since then I have collected every bit of information available on the UFO phenomenon. During my thousands of hours of flying. I searched the skies constantly and have been rewarded with many other sightings. As time went on, I was informed by other airline pilots in New Zealand that they, too, were sighting objects for which they could find no explanation. It became very obvious that either we were being observed by some sort of advanced vehicles coming in from outer space—or that some scientific group on Earth had discovered a principle of physics unknown to the rest of us, and secret research of some nature was being carried out. I am now sure that both views are correct and that much is being kept from the public.

Over the years I have studied a great deal of material published by other investigating groups, and came to the conclusion that no real progress could be made in discovering the purpose of UFO activity by this means. The main body of investigators seem to have confined their activity to collecting masses of sighting reports, filing them away and then doing nothing else with the information. Very little practical use has been made with any of it.

I decided long ago that the only way to tackle the problem would be to plot all the areas of activity and try to find some logical mathematical order in the hovering positions or flight paths of the unknowns. To this purpose, I studied the methods of a Frenchman by the name of Aimé Michel who had also endeavoured to find a mathematical order of this nature. He had had partial success and managed to find several tracklines with equally spaced activity in the European area. Just when he appeared to be onto something, for some unknown reason he abandoned this line of research and publicly proclaimed that nothing could be accomplished by this method. After studying his earlier attempts, I considered that there was definite logic in his findings and decided that I would carry on my own research using his basic methods.

I struck gold, and ever since I plotted the first two tracklines at right angles in the New Zealand area I have continued to progress and advance my scientific knowledge in areas which otherwise would normally be completely foreign to me.

Along the way I have taken much flack from the academic world and from those who profess to know all the answers—that is, in public. But behind the scenes it has been a different story. Over the years I have had many direct communications from members of intelligence organisations, top scientific circles and government agencies, wishing to know what my latest findings were and requesting copies of certain parts of my work.

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Once I had established the two tracklines, I was able to form a complete grid network over the whole of the New Zealand area by gradually plotting into the survey map the most reliable UFO sightings. The pattern consisted of lines spaced at thirty-minute intervals oriented just on six degrees displacement from true north. Eventually, two similar grids were found to be interlocked with each other, creating rather a complex pattern which could be further reduced to lines with a spacing of seven-and-one-half minutes. I have made use of this map for many years and still find the grid lines valid when checking recent activity.

The next logical conclusion was that I had discovered a small section of what could possibly be a world system. The question was how to transfer this small section onto the world sphere and accurately align it. It was then brought to my notice that a strange aerial-like object had been photographed by chance on the seabed off the west coast of South America by the American survey ship *Eltanin*. The object was two to three feet high and had six main crossbars spaced evenly up its stem, with a smaller one on top. Each set of crossbars had a small ball at the end of each arm. A friend and I visited the *Eltanin* when it came into the Port of Auckland and we were told by one of the scientists on board that the object was thought to be an artefact of some kind and appeared to be metallic.

I had a hunch that this could be the point I was looking for upon which to orientate a world grid, if in fact one existed. I spent some time constructing grid patterns on a plastic ball until I found a system which could be transferred onto the world surface and aligned with the aerial-type object and the section of the grid discovered over New Zealand. I found that the patterns matched and felt sure then that a global system was almost a certainty.

The next step was to find the mathematical basis of the system, and this proved to be a long and arduous job—especially as I do not class myself as anything of a mathematician or a physicist. After a study of all the available information on UFO activity, I came to the conclusion that the speed of light, mass and gravity acceleration values must have some connection with the grid structure in order to explain the extraordinary manoeuvres carried out by the strange craft.

The basic grid structure was formed by a series of great circles interlocking at various points around the Earth's surface. The nodal points of the two grids, when joined by a series of small and great circles, formed what I have loosely termed 'polar squares' around the north and south geographic poles. It was when I carried out a geometric and mathematical analysis of these sections that I found a direct connection with light, gravity and mass equivalents, in a harmonic sense. To do this I had to convert all our normal systems of measurement into a single set of units and also convert our time measure into one that would correlate with the grid. After much thought and a long period of trial and error I finally found that angular measure in minute-of-arc values, and a time unit based on twenty-seven units for one revolution of the Earth, was the key to unlocking the grid secrets.

After that, it was a long and slow process to learn how to relate the values being calculated, one to the other, in order to find a logical mathematical basis for the system.

Finally, after years of work, I discovered that I could formulate a series of harmonic unified equations which indicated that the whole of physical reality was in fact manifested by a complex pattern of interlocking wave-forms. I gradually found that the harmonic values could be applied to all branches of scientific research and atomic theory. At first I was not very sure of the results I was getting but, as time went by, more and more interest was being shown by intelligence agents, government personnel and scientists in the work that I was doing, and many requests started coming in for information. Help in my work was eventually offered from these quarters but the catch was that I had to remain silent about my discoveries. This I refused to do, and still continue to battle along on my own. Once I realised the importance of the material in my possession I considered it extremely dangerous for any small group of people to have complete control of it.

It was only a matter of time before I realised that the energy network formed by the grid was already known to a powerful group of international interests and scientists. It became obvious that the system had many military applications and that political advantage could be obtained by those with secret knowledge of this nature. With this knowledge, it would be possible for a comparatively small group to take over control of the world. I have continually asked these people for a valid moral reason why the information should not be given to the world community, and so far no answer has been given—so I carry on publishing the material as I find it.

One of the most startling facts that I discovered by the application of grid mathematics was that an atomic bomb is a device based on the geometrics of space and time. To be successfully detonated, the bomb must be geometrically constructed, placed on, under or over a geometric position in relation to the Earth's surface, and activated at a specific time in relation to the geometrics of the solar system. I found that it was possible to precalculate the times of various bomb tests and the locations where it was possible to explode a bomb. When it became known that I had discovered this well-kept secret, I was offered a position by the American Central Intelligence Agency.

The offer was very tempting but I decided that I could not sign my freedom away, and after two days I turned it down. According to the mathematical complexities of unlocking the geometric structure of the unstable material constituting a bomb in order to create a sudden release of energy, I realised that an all-out atomic war was an impossibility: both sides could precalculate well in advance the time and positions of atomic attack; plus the fact that only certain geometric locations could be devastated anyhow. This could be the reason for the proliferation of conventional weapons in modern warfare. Now, of course, the Russians and the Americans are in the process of dismantling the atomic warfare machine and beginning to cooperate in more peaceful ventures. The atomic threat has served its political purpose.

Another application of the grid unified harmonics is the production of energy. With the right know-how and with comparatively simple apparatus similar to a radio receiver, an unlimited amount of free electrical energy can be tapped from the gravitational fields inherent in the energy system. This has already been done in the past by one of the greatest technical geniuses in history, Dr Nikola Tesla. Dr T. Henry Moray also invented apparatus that would tap gravitational energy directly. It is said that Dr Tesla constructed a car which had an electric motor that derived its energy directly from the surrounding gravitational field. The car could reach speeds around 90 miles per hour. I would advise readers to gather all the information they can on the attainments of these two men. Their work •bvi•usly has been suppressed.

"It is not right for the public to have this knowledge," I was told by one of my contacts who worked for an intelligence organisation. "It would not be good for them," he said. I am sure that most of you would disagree with this outlook. It is up to the scientific community itself to open up research in all these fields in order that all mankind can reap the benefits.

In the early years of my research I believed that the grid system had been set up artificially by the geometric placement of specialised electromagnetic transmitters. As time went on I realised that this was not correct. The grid system is formed naturally by the electromagnetic fields of the Earth itself. In theory, all spherical bodies in the Universe are formed the same way. The electronic hardware that I had discovered in my research was gear that had been built into the natural system. The scientists know about it and are tapping into it.

I am still progressing in my research into the world energy system and the geometric nature of the Universe. During the last few years I have managed to compile all the discovered harmonic unified values into a set of unified tables which can now be used for research in many areas of scientific interest. I discovered that I could convert the gravitational acceleration values in the physics books into geometric values, and correlate them directly with the harmonic geometrics derived from the grid system.

After all these years, the latest computer tables indicate that the geometric harmonic of 695, published in my earlier works, is in fact a direct conversion of gravity acceleration. The tables show quite clearly that the harmonic of gravity acceleration is the reciprocal of the harmonic of the acceleration, or deceleration, of light. The term 'speed' of light is a misnomer. The confusion is caused by the relative motions involved in the calculations.

The Universe is now open to us.

We can reach any part of it by means of the harmonic conquest of space.

Chapter One

MATHEMATICS OF THE WORLD GRID

UPDATED 1994

The information in this chapter regarding the structure and mathematical values built into the system consists of material condensed from my first four books, plus the findings derived from my recent research up to early 1993. Over the last few years I have had the use of computers and, recently, special programs that have helped me to increase the accuracy of my research and assemble the mathematical values into a much more understandable order.

In a general way I was convinced that UFOs were actively engaged in a survey of the Earth for some definite reason. I felt that their visits were not haphazard—they were not just on casual sightseeing tours. Quite a number of investigators around the world had come to the conclusion that the sightings were beginning to form a pattern. At this period, however, the pattern was so complex as to defy any definition or solution. By the correlation of sightings, small sections of track had been identified and some UFOs had been observed moving along these set paths. Some of these had hovered over certain spots at set intervals, but these bits and pieces of tracklines were so scattered around the surface of our planet that it was quite impossible to fit them together into any semblance of order.

I was certain that if an overall pattern could be found and plotted, it might be possible to establish the reason behind UFO activity. I considered that the pattern would be geometric if these things were intelligently controlled, and that if somehow I could find the key to one section then I might solve the rest by duplication and inference.

I had sighted a number of unidentified objects in the sky over a period of several years, and by correlating two of these with other data I was eventually able to construct a grid system which covered the whole world.

One of these sightings was in 1956. I was a DC3 co-pilot crewing a flight from Auckland to Paraparaumu. It was about 6 pm, conditions were calm and there was unlimited visibility. We were just south of Waverley at 7,000 feet when I saw this object at an extremely high altitude in the east. I drew the captain's attention to it and together we watched it travel in a curved trajectory from east to west across our track until it disappeared in a flash of light at about 10,000 feet in the area of D'Urville Island. It appeared to travel across New Zealand in the vicinity or slightly to the north of Cook Strait, and it was so large that two streaks, similar to vapour trails, were seen to extend from either side of its pale green disc.

When about halfway across the strait, a small object detached itself from the parent body and dropped vertically until it disappeared. It looked almost as if the main disc was at such a high temperature that a globule had dripped from it. I thought about this later and decided that if that were so, the small object would also have a curved trajectory in the direction of the parent body. But this was not so; it detached and dropped 'vertically' down at great speed. There could be only one answer for this action: the small body must have been controlled.

Calculations at a later date proved this UFO to have been between 1,500 and 2,000 feet in diameter. A report in a Nelson newspaper the following day described an explosion at a high altitude to the north of the city. The shock wave broke windows in some local glasshouses.

My other sighting occurred on 12th March 1965. This was the best and most interesting of them all, and from then on my investigations proceeded with all speed until they culminated in my present findings.

I had always expected to see UFOs in the sky and that was where my attention was usually focussed. While flying, I was always ready and alert to analyse any object sighted from the aircraft. I never expected to find a UFO landing at my feet and, so far, this has never happened. This sighting, however, was different from all the others because I observed it lying under about thirty feet of water.

I was scheduled to carry out a positioning flight from Whenuapai, Auckland's main airport at the time, to Kaitaia, at the northern tip of New Zealand. Departure was at 11 am, and as there were no passengers involved and the weather was perfect I decided to fly visually to Kaitaia along the west coast. An officer from the operations department was on board, and this was a good opportunity to show him some of the rugged country to the north. (I must stress that air traffic regulations were strictly observed during the flight.)

On leaving Whenuapai I climbed to clear the area, and when approaching the southern end of the Kaipara Harbour, just north of Helensville, I dropped to a lower altitude to have a better look at anything in the flight path. The tide in the harbour was well out and the water over the mud-flats and estuaries was quite shallow.

We were about a third of the way across the harbour when I spotted what I took to be a stranded grey-white whale. I veered slightly to port, to fly more directly over the object and to obtain a better look.

I suppose a pilot develops a habit of keeping his emotions to himself. As far as I can remember, I gave no indication of surprise and I said nothing as I looked down. My 'whale' was definitely a metal fish. I could see it very clearly, and I quote from the notes I made later:

(a) The object was perfectly streamlined and symmetrical in shape.

(b) It had no external control surfaces or protrusions.

(c) It appeared metallic and there was a suggestion of a hatch on top, streamlined in shape. It was not quite halfway along the body as measured from the nose.

(d) It was resting on the bottom of the estuary and headed towards the south, as suggested from the streamlined shape.

(e) The shape was not that of a normal submarine and there was no superstructure.

(f) I estimated the length as 100 feet, with a diameter of 15 feet at the widest part.

(g) The object rested in no more than 30 feet of clear water. The bottom of the harbour was visible and the craft was sharply defined.

Enquiries made with the Navy confirmed that it would not have been possible for a normal submarine to be in this particular position due to the configuration of the harbour and coastline.

An American engineer checked this spot on the harbour with a depthsounder in September 1969. He informed me afterwards that a hole had been detected in the harbour bed approximately one-eighth-of-amile wide and over 100 feet deep, which I consider would indicate some activity had been carried out in this position at some previous time. I published this report in my second book. More about this man in a later chapter.

I had a further key to the puzzle in April 1965. My wife saw an

advertisement in the local paper seeking members for a UFO organisation called the New Zealand Scientific and Space Research Organisation. I contacted this organisation and found that a vast amount of information had been very efficiently compiled. Material had been collected from twenty-five different countries over a period of twelve years. I was invited to study the information at leisure.

Amongst this mass of data I discovered the reports of a UFO that had been seen from several different localities in both islands of New Zealand on 26th March 1965. People in Napier, New Plymouth, Palmerston North, Wanganui, Fielding and Otaki Forks in the north islands, and Nelson coast road. Blenheim and Westport (Cape Foulwind) in the south island, had all reported sightings.

It was decided that I try to plot the track of this UFO. From the considerable amount of information available, I found that the maximum variation in times of sightings from all areas was 15 minutes. Most reports gave the time as 9.45 pm. This proved that the object must have been very large and at a high altitude during the greater part of its trajectory.

There was nothing of any great significance or originality in these accounts and they followed the pattern of many other sightings. However, from the mass of detail supplied by so many different people over so wide an area, it was possible to plot the track of the object with reasonable accuracy. I started work on a Mercator's plotting chart, and after several hours of checking one report against the other and calculating possible elevations and trajectories. I felt I had refined the plot sufficiently to draw in the final track of the object. The result is shown on Map 1.

The track began about seventy nautical miles north of New Plymouth, passed just over to the west of Mt Egmont and finished at D'Urville Island. When first seen, the altitude would have been about 30,000 feet curving down on a flight path to somewhere around 10,000 feet when it disappeared.

Some time after those sightings on 26th March 1965, I had another look at the plot I had made. I could find no flaws in my thinking but I needed more information. As I was to discover many times later, the clues were quite obvious, but I was not then sufficiently expert in realising their significance. In point of fact, this first trackline was to be the starting point of a whole string of discoveries of which I have yet to find an end.

I pored over that plot for a long time before it suddenly occurred to



me that the track appeared to be in line with the position where I had sighted the unidentified submarine object, or USO, on 12th March 1965. On extending the line back, I found that it was in line with the sighting of 26th March. I was positive there had to be a connection, but to prove it was a different matter.

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I checked my report files again and found that on 2nd March some fishermen just north of the coast of New Plymouth had seen a large object plunge into the sea and disappear. They thought it was an aircraft and reported the incident to the appropriate authorities, but no aircraft or personnel were missing. I checked this position on the map and found that it also fitted the established trackline. Was this connected with the USO of 12th March, and could the two sightings be of the same object sighted twice in ten days? Could it have been working slowly up this track carrying out some project on the seabed? I tucked this thought away for future reference and carried on with the search.

It was some days later that I remembered the UFO I had seen in 1956. This object was similar and, most significant of all, both objects had apparently travelled at 90 degrees to each other and finished in the same grand all-illuminating flash in the area of D'Urville Island.

If these objects were not controlled, how could anyone explain such coincidences? No two meteors or other natural phenomena could coincidentally carry out similar manoeuvres, travel at 90 degrees to each other, and both decide to end their existence at the same point in space within nine years of each other. Also, in both cases, objects were seen to emerge from the parent bodies. Was this irrefutable evidence that they were intelligently controlled vehicles?

I plotted the track of the 1956 UFO on the map at 90° to the northsouth line. I realised that I had no definite proof that they were at exactly 90° to each other, or that the 1956 track was not a few miles north or south of this position. Still, I had to start somewhere, and I would assume this to be correct unless and until other evidence proved me wrong. Two tracklines at 90° meant little on their own. If I found several at 90° I might have something. A grid perhaps? These two lines hinted at this, and I believed if I could solve the system of measurement then I had two ready-made baselines from which to work.

Once again I went to the UFO files and found that a Frenchman by the name of Aimé Michel had been studying UFOs for a number of years and had found small sections of tracklines in various areas of Europe.

They had been seen hovering over various points along these track-

lines, and Mr Michel had observed that the average distance between these points was 54.43 kilometres. By itself this was only a small grain of information but, like a starting gun, it set me off again.

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Using the Kaipara Harbour as a starting point, I marked off the 54.43-kilometre intervals along the trackline I had found. I was disappointed when I was unsuccessful in obtaining an even distribution of positions to the D'Urville Island disappearing point. I checked and rechecked but nothing worked out. I slept on the problem and next day I had the answer.

I remembered that a great number of sightings had occurred around the Blenheim area. Even before the advent of ordinary aircraft in New Zealand, this area had been visited by UFOs. I had read about them in old copies of the local papers, and many recent sightings suggested again that this area had something special about it.

So I dragged out my map and extended the trackline until it cut a 90° coordinate from the town of Blenheim. The distance from this point to the Kaipara position I found to be exactly 300 nautical miles, and one nautical mile is equal to one minute of arc on the Earth's surface. Could it be that the rough interval 54.43 kilometres discovered by Michel was, in fact, an interval of 30 nautical miles when corrected? If so, then this interval could be evenly spaced along my trackline ten times. Was this the system of measurement used by the UFOs? There was no proof of course but it seemed a reasonable assumption. A minute of arc is a measurement which could be applied to the whole Universe.

University personnel and others in the academic field attacked me repeatedly over this issue. They maintained that degrees and minutes of arc were arbitrary values set up by the ancient mathematicians and that therefore my calculations were meaningless. I finally found proof of my argument in the works of Pythagoras. As my research progressed, I discovered that the harmonic of the speed of light in free space had a value of 144. If this was divided by 2 to find the harmonic of one half-cycle or half-wave, the answer was 72. If this value was then applied to the Pythagoras right-angled 3,4,5 triangle, and each side was extended in this ratio, then the figure had sides of 216, 288 and 360 units. The harmonic proportions thus derived were equal to:

216	=	21600	= the number of minutes of arc in a circle
360	=	360	= the number of degrees in a circle
288	=	(144 x 2)	= $2c_1$, where 'c' = the speed-of-light harmonic



Photocopy 1 Eltanin Aerial It appeared from this that the harmonic of light had a very definite relationship with the geometry of a circle and that the carly mathematicians were fully aware of the fact. This will become clearer as you read through this book.

The fifth interval of 30 nautical miles from the Kaipara position coincided with the position off the coast of New Plymouth where the mysterious object had plunged into the sea. The plotted points of disappearance of the two large UFOs in the D'Urville Island area did not quite match up with the ninth interval, but this did not worry me unduly as I expected that a small percentage of error must be inherent in my original plot. I readjusted this position to the ninth interval and carried on the search to see how many other sightings I could fit into this pattern.

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The results exceeded my expectations. I found that by using units of 30 minutes of arc latitude north-south and 30 minutes of arc longitude east-west on my Mercator's map, a grid pattern was formed into which a great number of UFO reports could be fitted. I eventually had a map with sixteen stationary and seventeen moving UFOs plotted on grid intersections and tracklines.

Having satisfied myself that my reasoning and plotting were not false, I considered that I had good proof that New Zealand, possibly other countries and probably the whole world were being systematically covered by some type of grid system.

I subsequently discovered that the grid lattice could be further divided. It is now evident that the grid lines in the main system are spaced at intervals of 7.5 minutes of arc, north-south and east-west. The importance of this will prove itself when compared with the rest of the calculations in this book. There are 21,600 minutes of arc in a circle, and when this is divided by 7.5 we get a value of 2880. The grid lattice is therefore tuned harmonically to twice the speed of light (288), as will be shown in other sections.

It appeared that I had found a section of geometric grid pattern in the New Zealand area. I now had to form some theory of construction for the whole world. I could then possibly fit the New Zealand section into it. By drawing a series of patterns on a small plastic ball, I finally found a system that could be used as a starting point for a global investigation. The basic pattern is shown in Diagram 1.

I was sure I was on the right track, but now I had to superimpose this pattern on the world globe. It was essential that I find a point position somewhere on the Earth upon which to orientate the geometric pattern.

Diagram 1

Showing the relationship of a grid polar square to the geographic pole. Each grid has a similar pattern. The pole of each grid is set at a different latitude and longitude.



The displacement (A - B) has a different value for each grid.

(A - B) Grid "A"	= 1054.255313 minutes of arc
(A - B) Grid "B"	= 694.8832574 minutes of arc
(A - B) Grid "C"	=, 867.6871800 minutes of arc

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I finally came up with an item of news that gave me a very important clue on how to proceed.

On 29th August 1964 the American survey ship *Eltanin* was carrying out a sweep of the seabed off the coast of South America. A series of submarine photographs was being taken of the area by means of a camera attached to a long cable. A surprise was in store when these photographs were developed. On one of the prints, in marvellous detail, was an aerial-type object sticking up from an otherwise featureless seabed.

This object appeared to be metallic and perfectly symmetrical in construction. The array consisted of six main crossbars with small knoblike ends and a small crossbar at the top. Each cross looked to be set at an angle of 15 degrees to the others, and the whole system stood about two feet in height. The position where this object was found was given as latitude 59° 08' south, longitude 105° west.

As this bit of ironmongery was situated at a depth of 13,500 feet below the surface, I was certain that no human engineers had placed it there.

Scientists may be able to descend to those depths in specially constructed bathyspheres, but I don't think they could work as deeply as that on a precision engineering problem. In view of my earlier sightings in the Kaipara Harbour, I was willing to accept that the aerial-type object had been placed there by an unidentified submarine object, or USO.

Since this photo was taken, there has been a determined attempt by the scientific world to label this object as nothing more than a plant of some sort. A journalist friend and I managed to visit the *Eltanin* during one of its few visits to New Zealand, and when we discussed this object with some of the scientists on board, the comment was that it was classed as an artefact. This was before the great hush-up, but regardless of that I believe that the mathematical proofs will show without doubt that the object is artificial and most probably an aerial of some sort.

The form of this aerial-like structure also fitted in with the general pattern of the grid as I had envisaged it on the plastic ball. The six main crossbars denoted the radiating points of six, or twelve, great circles which form the main structure of the grid.

I centred the grid on the position of the object found by the *Eltanin*, and the 180° reciprocal of this in Russian Siberia, lining the whole thing up with the section I had found in New Zealand. I found the system to be lined up very closely with the magnetic field of the Earth. The equator of the grid followed very closely the line of zero dip around the world (that is, the positions on the Earth's surface where a magnetic compass needle has only a horizontal and no vertical component).

In my first two books I discussed the methods I used to line up the system and calculate the first estimates of the grid pole positions and the major focal points of the grid similar to the *Eltanin* 'aerial' placement.

In this earlier work I placed the reciprocal position of the *Eltanin* 'aerial' at a latitude of 59° 08' north and longitude 75° east. Recent computer analysis would now place the aerial at a position of 59° 09' 17.93" north and 75° 00' 36" east. This would, of course, mean that the original position given in the local newspaper for the *Eltanin* aerial, of 59° 08' south and 105° west, was in error. All present indications on the computer give a true position of latitude 59° 09' 17.93" south and longitude 104° 59' 24" west. The equivalent position on energy grid "B" would then be latitude 47.573593326° south and longitude 0.00°, or grid longitude zero and 2545.5844 minutes of arc from Grid Pole "B" in the south.

At the time, when the survey ship was in the Port of Auckland, the scientists probably passed a rough position along with a copy of the photograph to the local newspaper. It is possible that they did not want the exact position to be known. They now try to pass the object off as some type of plant life.

I calculated the length of the diagonal of what I call for simplicity the 'polar grid square' and found it to be 5091.168825 minutes of arc long. I plotted a track from the Siberian position through the north geographic pole and measured off this distance to locate another corner 'aerial' of the polar square.

'Square' is not technically the right word to use, as the four sides are formed by sections of small circles which are in different planes to each other. When the 'polar square' areas are transferred from the surface of the Earth sphere onto a flat plane such as a map, then a perfect square is formed with sides 3600 minutes long and diagonals 5091.168825 minutes of arc.

Once I had established this first baseline, I found it quite easy to construct the main skeleton of the grid over the whole surface of the Earth.

Soon I found that there were in fact two similar grids interlocked with each other. The poles of the grids were spaced at different distances from the geographic poles, and this arrangement set up a series of geometric harmonics which were directly related to the speed of light, mass and gravity. The interaction of the two grids created a harmonic resonance which, in turn, formed a third resultant grid.

The theoretical positions for Grid Poles "A", "B" and "C" in the northern hemisphere are as follows:

Grid Pole "A":	Latitude:	72° 25' 44.6812" north
	Longitude:	89° 58' 59.4336" west
Grid Pole "B":	Latitude:	78° 25' 07.0046" north
	Longitude:	104° 59' 24" west
Grid Pole "C":	Latitude:	75° 32' 18.7692" north
	Longitude:	95° 58' 07.1695" west

The poles will be in reciprocal positions in the southern hemisphere. The diagonal of the 'polar square' of 5091.168825 units can be broken down into a series of values:

5091.168825 ÷ 2	=	2545.584412
Reciprocal of 2545.584412	=	0.039283710
Square of 2545.584412	=	648

The harmonic value of 3928371 is of extreme importance as it has a direct relationship with the Earth's magnetic field. The harmonic 648 also has many interesting associations—in particular, the harmonic table for temperature.

I have been able to check activity in other parts of the world by applying harmonic calculation to certain positions of latitude and longitude. It is not necessary to use the grid structure to carry out some types of calculation once the harmonic process is understood.

In my second book (*Harmonic 695: The UFO and Anti-Gravity*), I stated that the first glimmerings of how true space travel might be achieved came to me when I uncovered the clues that led me to the UFO grid that criss-crosses the globe.

I was aware that my calculations were not precisely accurate in the strict mathematical sense but I could see that the system was based on space-time geometrics, and there was the best possible support for this from no less than the theories of Albert Einstein.

Somewhere, I knew, the system contained a clue to the truth of the unified field which he had postulated permeates all of existence. I did not know at the time that this knowledge was already in the hands of scientists who were well ahead of me. I know now that they must have been aware of the grid system for many years. They knew that Einstein's ideas about the unified field were correct and, what's more, they have been carrying out full-scale research into the practical applications of the mathematical concepts contained in that theory.

We were told that Einstein died without completing his equations relating to the unified theory. But in more recent times it has been said that he did in fact complete his work and that the concepts were so advanced that the full truth was not released.

The only way to traverse the vast distances of space is to possess the means of manipulating or altering the very structure of space itself altering the space-time geometric matrix, which to us provides the illusion of form and distance. The method of achieving this lies in the alteration of the frequencies controlling the matter-antimatter cycles that govern our awareness or perception of position in the space-time structure. Time itself is a geometric, just as Einstein postulated. If time can be altered, then the whole Universe is accessible to us. We are now on the threshold of exploring deep space.

In the blink of an eye we could cross immense distances, for distance is but an illusion. The only thing that keeps places apart in space is time. If it were possible to move from one position to another in space in an infinitely small amount of time, or zero time, then both the positions would coexist according to our awareness. By speeding up the geometric of time, we will be able to bring distant places within close proximity. This is the secret of the UFOs. They travel by means of altering the spatial dimensions around them and repositioning in spacetime.

I decided to concentrate specifically on three harmonic values which appeared to have a close relationship with each other. Previously I had shown this connection and had truthfully pointed out that I did not know why the relationship was there at all.

At the time I did not have computers to work with, and the values calculated were only very rough estimates of those presently available. The harmonic values which occupied my full attention were:

1703: This was a four-figure harmonic of 170,300,000,000 which was the expression in cubic minutes of arc, or nautical miles, of the mass or volume of planet Earth and its surrounding atmosphere.

1439: A four-figure harmonic of 143,900 minutes of arc or nautical miles per grid second, representing the then known speed of light in grid values.

2640: This figure, expressed in minutes of arc or nautical miles, was built into the polar portion of the grid structure as a geometric coordinate when the curved pattern was transferred onto a flat plane.

I found that when I matched these values harmonically, the results were as follows (zeros to the right-hand side can be ignored in this form of harmonic calculation):

> 1703 <u>- 264</u> <u>1439</u>

In other words, the difference between the harmonic of mass and the harmonic of light was the harmonic of 264 (or 2640). It was apparent that if my calculations were more accurate it should be possible to find out just what the 2640 figure referred to. After more calculation, the following terms were found:

- 17025 Earth mass harmonic
- 2636 unknown harmonic
- 14389 speed-of-light harmonic

Checking through some five-figure mathematical tables, I found to my surprise that 2.6363 is the square root of 6.95 (from the 1-10 square root tables). In harmonic calculation, decimal points as well as zeros to the right or left of the figure can be ignored; so it could be said that the square root of the harmonic 695 was the harmonic 2636. I could perceive from this the first steps necessary to solve the elusive equation. I had established that 695 was the harmonic reciprocal of the speed of light, or 1/1439, subject to the accuracy of my calculations at the time.

It was now possible to substitute algebraic values, although obviously a computer would be necessary to solve the true values to extreme accuracy.

- 17025 Earth mass
- 2636 the square root of the speed-of-light reciprocal
- <u>14389</u> the speed of light

Therefore, if c = the speed of light m = mass

Then $m = [c + \sqrt{1/c}]$

I had the first part of a unified field equation in harmonic values. To take the next step I first had to go back to Einsteinian theory, particularly the famous equation $E = mc^2$, where 'E' = energy, 'm' = mass, and 'c' = the speed of light.

Einstein declared that physical matter was nothing more than a concentrated field of force. What we term a physical substance is, in reality, an intangible concentration of wave-forms. Different concentrations of structural patterns of waves unite to form the myriad chemicals and elements which in turn react with one another to form physical substances. Different wave-forms of matter appear to us to be solid because we are constituted of similar wave-forms which resonate within a clearly defined range of frequencies that control the physical processes of our limited world.

Einstein believed that 'm', the value for mass in the equation, could eventually be removed and a value substituted that would express the physical in the form of pure energy. In other words, by substituting for 'm', a unified field equation should result which would express in mathematical terms the whole of existence including this Universe and everything within it. ۱

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Einstein maintained that the 'm' in his equation could be replaced by a term denoting wave-form. I had found a substitute for 'm' in terms of wave-forms of light. So the obvious step to me was to replace Einstein's 'm' with the values of 'c' found from the grid system. The results are as follows:

Einstein:	$E = mc^2$	
Cathie Grid:	$m = [c + \sqrt{1/c}]$	
Therefore,	$E = [c + \sqrt{(1/c)(c)^2}]$	— Harmonic Equation 1

I NOW HAD A HARMONIC UNIFIED FIELD EQUATION EXPRESSED IN TERMS OF LIGHT, OR PURE ELECTROMAG-NETIC WAVE-FORM — THE KEY TO THE UNIVERSE, THE WHOLE OF EXISTENCE, TO THE SEEN AND THE UNSEEN, TO FORMS, SOLIDS, LIQUIDS AND GASES — TO THE STARS AND

THE BLACKNESS OF SPACE ITSELF — ALL CONSISTING OF VISIBLE AND INVISIBLE WAVES OF LIGHT. ALL OF CRE-ATION IS LIGHT.

It was now necessary to refine my calculations and attempt to discover a way to practically apply this initial equation. Although the results obtained so far were more than satisfactory, I still had a feeling that the unified theory was not quite complete. Even at this stage I had a vague idea that matter and antimatter were geometrically connected and that the equations should indicate this. Much more work was necessary and much more time went by before the harmonic geometrics were discovered which proved the correlation. There had to be an extension of the equation which so far I had missed that would produce the necessary harmonics for movement in space-time.

When I look back on my work during that period, it amazes me that I was able to discover the fundamental equations which have been the basis of my research up until the present time, considering the very roughness of the values I was working with and the limited range of my knowledge.

This must also have been the thought of two mysterious gentlemen who accosted me in a hotel in Gisborne, New Zealand, many years ago when I was on an overnight stopover while flying for the local airline.

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The crew and I had finished our dinner and were relaxing in the lounge watching television when the elder of the two tapped me on the shoulder and asked very politely if I could spare some time for a chat. He would have been in his sixties and appeared to be a fairly respectable-looking gentleman, so I agreed and followed him out into the larger lounge where his companion was standing by the house bar. We sat down and after a few pleasantries the older man started questioning me about my research. This was not long after I had published my second book in the 1970s.

I gradually realised that this man was highly educated and was possibly a scientist because of his obvious knowledge of mathematics and physics. He asked me to explain how I had discovered the unified equations I had published in my book and what I believed would be the applications of the equations in the future.

Up to this stage during the questioning, his companion, a big man I estimated to be in his early fifties, had just looked on without saying a word. He had obviously been drinking and suddenly he became very agitated and started making very rude comments to me, some of them being: "How could a mug like you possibly have discovered this?" and

"How could you know all this? Where did you get this information?" He became so angry that he was almost dancing up and down in his rage.

The older man became very embarrassed by these antics, I think possibly because his companion had given the game away and shown their concern over the fact that I had published the information. It appeared that I had stumbled into a very secret area of research.

Shortly after this outburst, which to me was quite comical, the elder one of the two politely made some excuses and they quickly left the lounge. I checked with the office and found that they were not stopping at the hotel, and I realised then that the encounter had not happened by chance. They had turned up at the hotel, knowing I was there that night, specifically to confront and question me. I knew then that I had struck a nerve somewhere and that people high up in scientific circles were interested in my activities and research. Since that time I have been approached many times by strangers who profess to have a casual interest in my work, but when they ask the usual specific questions they tend to indicate their obvious connection with the intelligence groups. This has never worried me as I always carry out my work in the open and give information freely to anyone interested.

In the polar areas of the grid, the geometric values of some of the coordinates appeared to be doubled up. The coordinate of 2545.584412 was doubled in the diagonals of the polar squares, and all of its associated harmonics and other factors appeared to be doubled when the pattern was projected onto a flat plane.

I reasoned that the way to check this idea was to increase the values of 'c' in the equation and observe the changing harmonic of 'E' to see what relative values might emerge. I thought at the time that a direct antigravitational harmonic might become evident, but my recent research has proved this line of thought to be incorrect. In terms of mathematical values, I found what I was hunting for in the form of two more equations. In the case of one of the equations, I erroneously believed that the derived harmonic value related to the reciprocal of gravity. I know now that what I had hold of was an equation related to the magnetic field of the Earth.

The Earth is simply a huge magnet, a dynamo, wound with magnetic lines of force as its coils, tenescopically counted to be 1257 to the square centimetre in one direction, and 1850 to the square centimetre in the other direction (eddy currents).

The spectroscope shows that there is an enormous magnetic field

around the Sun, and it is the present conclusion of the best minds that magnetic lines of force from the Sun envelop the Earth and extend to the Moon, and that EVERYTHING, NO MATTER WHAT ITS FORM ON THIS PLANET, EXISTS BY REASON OF MAGNETIC LINES OF FORCE.

This I agree with, according to my own research. We are taught in our schools and universities that the magnetic field passes through one magnetic pole, then through the Earth and out the other magnetic pole. I disagree with this explanation. I believe that the magnetic lines of force enter the Earth at the poles, then carry out a looped path through the Earth before passing out the opposite poles.

The flow is not in one pole and out the other, but in both poles and out both poles, although the field intensity both ways is unbalanced.

If we can visualise one line of force so that we can trace out its path, we can form an analogy by imagining it to be similar to a piece of string. First of all, we make a loop in the piece of string. Now imagine it being fed through a fixed position with the loop remaining stationary relative to a fixed point. With the length of string as the axis, we can now make the loop revolve in a path which is at 90° to the movement of the string. The loop in fact would trace out a spherical-shaped form in space.

The lines of force of the magnetic field would form a lattice, or grid pattern, due to the spin of the planetary body. A good analogy would be an ordinary machine-wound ball of string. The length of string has taken on the form of a ball and at the same time has formed a crisscross pattern. If we again visualise this as a physical body being formed in space, then we can now imagine a small vortex being created at all the trillions of points where the lines of force cross each other in the lattice pattern. Each vortex would manifest as an atomic structure and create within itself what we term a gravitational field.

The gravitational field, in other words, is nothing more than the effects of relative motion in space. Matter is drawn towards a gravitational field just as a piece of wood, floating on water, is drawn towards a whirlpool. The gravitational fields created by the vortical action of every atom would combine to form the field of the completed planetary body. The world grid that I speak of is the natural grid that is formed by the lattice pattern of the interlocking lines of magnetic force.

The unbalanced fields of 1257 lines of force per square centimetre in one direction and 1850 in the other do not tell us very much in themselves.

But if we use the information to calculate the field strength over an area which has a harmonic relationship with the unified fields of space, and if the basic information is correct, we should find some mathematical values of great importance.

In my previous publications I demonstrated that there was correlation with the unified fields, within a small margin of error, due to the known conversion factors at the time. I was also not aware then that within a certain fixed range the light and gravity factors were variable, and that relativity factors would be evident in the latest and more accurate calculations. Fractional errors are still found in the conversions in relation to the given quantities, but these are so small that I am sure that the theoretical harmonic associations will stand the test when more accurate computing and conversion factors are available.

It appears now that the magnetic field strengths and areas change in conjunction with the light and gravity factors according to the change in latitude on the Earth's surface. During these changes the harmonic relationships remain constant.

The basic unit for harmonic calculation is the geodetic inch, or one seventy-two thousandths of a minute of arc—one minute of arc being 6,000 geodetic feet (6,076 British feet). If we take the values 1257 and 1850 lines of magnetic force per square centimetre and make a fractional correction to allow for the curvature of the Earth's surface (the given square centimetre area would have fractionally curved sides), we can then establish a theoretical field density of 1257.139035 lines of force in one direction and 1850.900532 lines of force in the other. This will allow the calculation of the field densities for one square geodetic inch in the north and south pole areas, which can be related mathematically to light and gravity factors shown in the matter and antimatter tables later in this book.

Field A:	1850.900532 lines of force per square centimetre	
Converts to:	12245.69798 lines of force per square geodetic inch	
Field B:	1257.139035 lines of force per square centimetre	
Converts to:	8317.32698 lines of force per square geodetic inch	
The fields would be in opposition to each other.		

The combined field density is equal to:

20574.234 lines of force per square geodetic inch

The difference in field density is equal to:

3928.371 lines of force per square geodetic inch or, Field A - Field B.

We can now formulate another equation in order to demonstrate the association of the Earth's magnetic field with the speed of light.

Harmonic Equation 2:

Field (A - B)	$= [2c + \sqrt{(1/2c)}](2c)^2$
	= 3928.371 harmonic
Where 'c'	= 144000 - 90.9345139
	= 143909.0655

The reduction of light speed of 90.9345139 minutes of arc per grid second creates a very interesting factor.

The whole system of universal harmonics is based on the geometrics of the circle, the circumference of which can be divided by its radius into six equal parts. Therefore, six is the fundamental harmonic of all circular and spherical forms, and basic values can be shifted up or down the harmonic scale by multiplying or dividing by this number. Base 10 is also a part of the harmonic process and decimal points can be moved back and forth without altering the series of numbers. Zeros before and after a number series can be ignored in harmonic calculation. It takes a while to get used to these concepts but after a few practice calculations the process becomes evident.

I have had many arguments with the academics over this, but the proof of this secret mathematical system is being made evident every day by the activities of their own associates. Constructions are appearing which comply with the harmonic values. Ancient constructions also comply with the harmonic values. These secrets have been handed down through the ages.

So, if we multiply the value of 90.9345139 by the six harmonic, seven times:

 $90.9345139 \times 6 = 25455844$

The result is a harmonic of 2545.5844 which is the distance in minutes of arc of each *Eltanin*-type aerial from the grid poles, and also the reci-

procal harmonic of 3928.371, the difference in field density of fields "A" and "B".

It has been found that the value 143,909.0655 minutes of arc per grid second for the speed-of-light factor has a direct geometric association with electromagnetic transmission and reception. It was years after I published this particular equation that I found this out by accident while checking other data.

In my earlier publications I demonstrated how a third harmonic equation could be formulated by use of what I thought at the time to be a constant speed-of-light factor at the Earth's surface. I have now discovered that the speed of light is not a constant, and that different values within a set range can be entered into the equation which will give particular harmonic results. The value I used was 143,795.77 minutes of arc per grid second. This, in fact, was very close to 143,791.36 minutes of arc per grid second which can now be regarded as the reciprocal harmonic of gravity acceleration at the Earth's equator.

It is only in recent times that I finally cracked this secret. When I published my second book, *Harmonic 695: The UFO and Antigravity*, I could not understand the reason for the antagonism I caused amongst the establishment. It was then that I began to get particular attention from the intelligence groups and the academics. One particular visitor from Britain was insistent that I knew far more than I was admitting to. He got very angry when I tried to convince him that my knowledge was still limited to the published data. There was something in my book that they obviously were aware of and I wasn't.

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It was only many years later when, because of a sudden hunch, I decided to check the gravity acceleration values in the textbooks and convert them into geometric equivalents in grid time. I found the following table for the variation of gravity with latitude at sea level, in one of my research books:

Table 1 - Variations of 'g' with latitude at sea level				
Latitude	'g' metres/sec ²	L	atitude	'g' metres/sec ²
0°	9.78039		50°	9.81071
10°	9.78195		60°	9.81918
20°	9.78641		70°	9.82608
30°	9.79329		80°	9.83059
40°	9.80171	•	90°	9.83217

The values were in metres per second squared, and I decided to convert these progressively into British feet, geodetic feet, minutes of arc or nautical miles, and degrees, based on grid time. I started off with the value at the equator of 9.78039 metres per second squared, and when I found the value for degrees, or 60 nautical miles per grid second squared, I got a very pleasant surprise:

0.000069545205 degrees per grid second squared.

The previous speed-of-light harmonic reciprocal of 695 published in my books was within about 5/100,000,000ths of the true value of gravity acceleration in geometric terms. No wonder the secret groups were getting uneasy about my findings. It was becoming obvious now that gravity and the so-called speed of light were harmonic reciprocals of each other. As gravity increased, the speed of light decreased, and vice versa. Light was therefore not a 'speed' in the true sense. It is an acceleration or deceleration according to geometric position. Because of relativity, it always appears to us as a constant factor. A little bit of thought will show that as the gravity and light values vary, then all the physical processes will vary in direct ratio, including our measuring instruments. All the readings will appear to remain constant. Time itself would also alter in relation to the gravity and light factors.

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It did not take me long to calculate a rough conversion table for the full 90 degrees from the equator to the poles. This was then extended harmonically to include the speed-of-light factors up to the maximum of 144,000 minutes of arc per grid second.

I passed these initial tables to the government authorities in New Zealand for the files, and continued to work on them in order to increase the accuracy.

It was around this time that I was visited by a young man from America, Mr Rodney Maupin. Rodney is an expert computer programmer and had been following my work for a number of years. He decided to visit me in New Zealand during October 1990 and spent almost a week with me and my family. I showed him much of the research I had been doing and did my best to teach him the basics of the harmonic mathematical system used in my work. He already had a fairly good knowledge of the world energy network from the study of my books and had no trouble understanding the information I passed on to him. From that time on we have maintained contact and worked together to computerise all the mathematical data discovered in my research.
24 The Harmonic Conquest of Space

Programs were created to calculate great-circle tracks and distances over the Earth's surfaces, and the tables I had produced that unified gravity and light harmonics were very accurately calculated to fifteen decimal places. (See harmonic unified table 2.)

The values we read on our instruments are those calculated at zero latitude, or the equator, because of relativity. When the light factors are converted back into normal measurements (kilometres per second, etc.), we see that the values match those in the textbooks. Table 2 would show the harmonics of gravity and visible light. Harmonic Unified Table 3 is produced by a fractional shift in the gravity harmonic and can be associated with electromagnetic propagation.

When I originally calculated Table 2, I had great difficulty trying to fit the harmonic value of 143,909.0655 minutes of arc per grid second into the series. Each time I tried, the table would show slight errors, and no matter how I juggled the values back and forth on the computer I could not get it to fit. The secret eventually lay in what is now called the "Lamb shift".

The uncertainty principle, stated by Werner Heisenberg in 1927, indicated that it is impossible to know the position and momentum of an electron at the same time because of the inherent fluctuations in the fabric of nature itself. We are only able to work in terms of probability waves which only give an indication of the size and shape of an electron's orbit as it fluctuates within an atom. This fuzziness means that the energy of an atomic structure could change or fluctuate to another value. In other words, there is no such thing as absolute rest in the whole Universe. According to quantum theory, any type of oscillator would not completely come to rest. It would continue to jiggle randomly about its resting point with what is termed zero-point energy.

It has been demonstrated that one effect of zero-point fluctuations in an electromagnetic field is to jiggle the electrons slightly in their atomic orbits, which leads to a shift in frequency of transitions of approximately 1,000 megahertz. This is known as the "Lamb shift", named after the American physicist Willis Lamb.

It is said that the zero-point fluctuations could have some connection with gravity. Soviet physicist Andrei Sakharov suggested that gravity may be a secondary effect associated with other non-gravitational fields, brought about by changes in the zero-point energy of the vacuum due to the presence of matter.

It appears from this that the harmonic of gravity is not an absolute. It can vary fractionally with the zero-point fluctuation. This was possibly

the answer I was seeking. Could the unified harmonic table be split into two due to the fractional fluctuation of the gravity value? A couple of years went by before I discovered what I believe to be the answer.

By trial and error I found that if I subtracted the speed-of-light value for the gravitational reciprocal, 143791.3643831903, from the 143909.0654859587 harmonic, the difference of 117.7011027684 was close to three times the harmonic of 39.2837100659, or 117.8511301977.

Working on the theory of a Lamb shift at the gravitational value, I decided to subtract the true harmonic of 117.8511301977 from 143909.0654859587 and set up a new value for the speed of light gravitational reciprocal:

This proved to be 143,791.214356539 minutes of arc per grid second.

The new harmonic for gravitational acceleration, or reciprocal of 143,791.214356539, was:

0.00006954527816 degrees per grid second squared.

The difference between the two gravitational factors would now be:

0.00006954527816 - <u>0.00006954520560</u> <u>0.0000000007256</u>

The square root of harmonic 72560: 269.3696345

More accurate computing could possibly bring this value to the harmonic of:

2694444444

Which brings us to Harmonic Unified Equation 3:

 $E = \sqrt{[(2c + \sqrt{1/2c})(2c)^2]}$

If the maximum value of 'c', or 144,000 minutes of arc per grid second is reduced by the harmonic of phi (1618.034) and entered into this equation, the result for 'E' is the 2694444⁺ harmonic.

144000.0000	
<u>- 161.8034</u>	
143838.1966	= the harmonic of 'c'

Therefore,

287676.3932	= the harmonic of '2c'
201010.3752	- the harmonic of $2c$

Therefore,

 $E = \sqrt{[287676.3932 + \sqrt{(1/287676.3932)(287676.3932)^2]}}$

Using harmonics,

 $E = \sqrt{[(2876763932 + 5895869843) (827577072)]} = \sqrt{(8772633775 \times 827577072)} = \sqrt{7260030574}$ E = 26944444 harmonic

Other values for 'E' can be derived from Harmonic Unified Equation 3 when the speed-of-light factor is altered harmonically between the ranges of gravity, 143791.214355761, and 144,000, the maximum.

Speed-of-Light Harmonic		Energy Harmonic
143791.214355761	gravity	2693567886
143791.3643831903	gravity	26935706
143860.9095887935	in air	2694867949
143891.3649196305	in vacuum	26954363
143909.0655	electromagnetic	26957666
144000	maximum	2697463486

We now have two unified tables which allow for visible light propagation and electromagnetic propagation, theoretically separated by a Lamb shift related to Harmonic Equation 3.

In Equations 2 and 3, the values for 'c' have been doubled to allow for antimatter which pervades our whole Universe. The scientists tell us that antimatter does exist but say that matter and antimatter are two separate forms of reality. They also say that if matter and antimatter come in contact with each other, they will cause an explosion. If both forms exist somewhere in space, we are not told where the boundary is. Space is not empty, and I believe that our Universe could not exist under these conditions. We are now told that there is more matter in the Universe than can be accounted for, and the latest term for this is "dark matter" or matter that cannot be seen.

As I have stated in my previous publications, natural law is not erratic. The Universe does not rely on chance to manifest within itself the physical substances which we perceive and call reality. A very strict, ordered system of mathematical progressions is necessary to create the smallest speck of matter from the primeval matrix of space.

During my years of research into the complexities of the Earth grid system, I have gradually built up a picture in my mind of the possible geometric combinations necessary to form matter from resonating, interlocking wave-forms.

Matter and antimatter are formed by the same wave-motions in space. The waves travel through space in a spiralling motion, and alternately pass through positive and negative stages. Matter is formed through the positive stage, or pulse, and antimatter through the negative pulse. Each spiral of 360° forms a single pulse. The circular motion of an electron about the nucleus of an atom is therefore an illusion. The relative motion of the nucleus and electrons through space gives the illusion of circular motion. The period during the formation of antimatter is completely undetectable, since obviously all physical matter is manifesting at the same pulse rate, including any instruments or detectors used to probe atomic structures. The period or frequency rate between each pulse of physical matter creates the measurement that we call time, as well as the speed of light, at the particular position in space of which we are aware at any given moment.

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If the frequency rate of positive and negative pulses is either increased or decreased, then time and the speed of light vary in direct proportion. This concept would explain time as a geometric, as Einstein theorised it to be.

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A rough analogy of physical existence can be made by reference to a strip of motion picture film. Each frame or static picture on the film strip may be likened to a single pulse of physical existence. The division between one frame and the next represents a pulse of antimatter. When viewed as a complete strip, each frame would be seen as a static picture (say, one at either end of the strip), then the past and the future can be viewed simultaneously. However, when the film is fed through a projector, we obtain the illusion of motion and the passage of time. The divisions between the static pictures are not detected by our senses because of the frequency or speed of each projection on the movie screen. But by speeding up or slowing down the projector, we can alter the apparent time-rate of the actions shown by the film.

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To continue this analogy, our consciousness is the projector. The conscious T am' part of our individuality passes from one pulse of physical matter to the next within the framework of the physical structure which we term our body, thus giving the illusion of constant reality and the passing of time.

It is logical to assume that we have a twin stream of consciousness on the antimatter side of the cycle, which in fact creates a mirror image of our own individual personality. (This postulate has already been put forward by scientists.) The frequency of manifestation of both streams of consciousness, that is, the plus and minus 'I am', would position our awareness of the illusion of reality at a particular point in space and time. In other words, if the frequency of pulse manifestation is altered even fractionally, our awareness of reality in the physical sense will shift from one spatial point to another. In fact, we would travel from one point in space to another without being aware that we have traversed distance in the physical sense. This would be the ultimate method for space travel.

The theory outlined above explains why light has been described as being caused by both a wave motion and a pulse. Both explanations are correct. A pulse of light is manifested when the energy level of an atomic structure is altered by outside influences (the theory of Max Planck). In the physical plane, the electron of the atomic structure appears to jump from its orbit. According to my belief, the electron does not jump orbit. This is the illusion we obtain, since we are not equipped to perceive the path of the electron during the antimatter cycle. What actually happens is that the radius of the spiralling motion is increased or decreased in order to absorb or release the energy imparted to or removed from the atomic structure. If the energy is imparted, then the electron must extend orbit in order to maintain balance in the system, and vice versa. Light, or any other radiant energy above or below light frequency, is therefore manifested by undetectable changes in the radius of the spiral motion of the electron during the antimatter cycle.

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If this hypothesis is correct, movement from one point in space to another point, regardless of apparent distance—in other words, true space travel—is completely feasible. By manipulating the frequency rate of the matter-antimatter cycle, the time and speed of light can be varied in direct proportion to any desired value.

All the mathematical evidence amassed so far indicates that the maximum number of individual elements to be found in the Universe will be 144. Each of these elements will have, in theory, six isotopes, which will make up a completed table of separate substances numbering 1008.

An isotope is an atom of the same element which has a different nuclear mass and atomic weight. Mathematically, the progression would create 144 octaves of separate substances, giving a theoretical value of 1152. The difference between the total number of substances (1008), and the harmonic value in octaves, would be 144—the light harmonic.

Once the precipitation of physical matter has occurred, the build-up of substances takes place according to a very well-ordered mathematical sequence. Light-waves, guided seemingly by superior intelligence, form intricate interlocking grid patterns which graduate from the simple to the more complex, as the elements from hydrogen at the lower end of the scale to element 144 come into being.

When we think of reality we must think of mass in relation to any physical manifestation, and the smallest particle of physical matter that we are aware of is the electron. Therefore electron mass must be the starting point in our quest for a feasible theory to explain the structure of matter.

The average radius of action of the electron around the atomic nucleus must also have a constant harmonic value in order to set up a system of expanding spheres which encompass the structure of each element. As the number of protons in the nucleus increases with the build-up of each element, the spherical space which houses the electron shell must expand to accommodate an equal number of electrons.

Although the protons and electrons are nothing more than extremely concentrated wave-forms, we consider them as physical particles in order to build up a picture of our model.

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As each electron cloud or shell expands outward from the nucleus, we find that it can accommodate only eight electrons. The shell is then filled up and another expansion must take place in order to form a new shell or harmonic zone, which again builds up to a maximum of eight electrons. As the magnitude of the harmonic resonance intensifies, the heavier elements are progressively produced until we reach a maximum of 144. The light harmonic is then equal and the cycle has been completed. The whole series is a repetition of octaves of wave-forms forming more and more complex structures.

In my earlier work I had assumed that the harmonic radius of the atom was equal to the mass ratio of the proton and electron. I now realise that although I was on the right track, the theoretical model demonstrated was partly in error. This necessitated another search into the physics books, and I now feel that the following calculations based on the experimental values are getting close to the truth.

It would be logical to base the harmonic interaction on the geometric structure of the hydrogen atom. If harmonic equivalents can be derived from the basic values established by experimental physics and remain within the laid-down tolerances, then almost certainly a new theory should be evident—especially if the harmonic values closely match those found in the unified equations previously demonstrated.

The distance given between the electron and the proton in the hydrogen atom is approximately 5.3 x 10^{-11} metre. (See *Physics—Part 2*, Halliday & Resnick.)

I have discovered, according to recent information, that a close theoretical value of $5.29724146 \times 10^{-11}$ metres could be associated with the unified tables:

5.29724146 x 10⁻¹¹ metres

= $208.5528148 \times 10^{-11}$ British inches = $205.9441884 \times 10^{-11}$ geodetic inches

The radius of the hydrogen atom would therefore be tuned to the harmonic value of 20594.41884. This would be harmonically equivalent to the number of magnetic lines of force per square geodetic inch in this geometric arrangement.

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The diameter of the hydrogen atom would be:

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	$= 205.9441884 \times 10^{-11}$
Multiplied by 2	$= 411.8883768 \times 10^{-11}$
Squared	= 169652.0349 harmonic
Squared	= 2.87818812 ¹⁰ harmonic
Divided by 2	= 1.439090655 ¹⁰ harmonic

The diameter of the hydrogen atom would then be harmonically related to the electromagnetic propagation value of 143,909.0655 minutes of arc per grid second. (See electromagnetic unified tables.)

If we now calculate the circumference of the hydrogen atom in terms of harmonic geodetic feet, then:

Diameter	= $411.8883768 \times 10^{-11}$ geodetic inches
۲.	= $34.32403140 \times 10^{-11}$ geodetic feet

Therefore, circumference

 $= 107.8321249 \text{ x } 10^{-11} \text{ geodetic feet}$

Now if we allow spacing on this circumference for eight electron positions, we have harmonically:

 $107.8321249 \div 8 = 13.47901561$ units

But an electron has only half-a-spin value, the other half taking place during the antimatter cycle, so harmonically:

13.47901561 x 2 = 26.95803122

Allowing for slight inaccuracies in the conversion values, it is almost certain that the geometric harmonics of the hydrogen atom would comply with the geometric energy value derived from Unified Equation 3 when the value for 'c' is equal to 143,909.0655 minutes of arc per grid second, namely, the 26957666 harmonic.

More work on the computer should show a perfect match.

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We can now use the hydrogen atom as a baseline to form a theory regarding the formation of the complete atomic table of elements. I believe that the harmonic radius of 205.9441884 units would remain constant throughout the whole range of elements, the orbits of electrons in all substances taking up harmonically spaced positions to the power of ten. In other words, by shifting the decimal point to the right or left of this basic harmonic, the orbital radius of all electrons can be calculated. (See Diagram 4.)

This would apply to the whole range of 144 elements and their isotopes. Physical reality, as we perceive it, is manifested by the concentrated interlocking of harmonic wave-forms, which are built up progressively from a foundation of fundamental wave-packets.



Diagrams 2, 3 and 4 show how matter and antimatter are created out of the same wave-forms. As the electron is moving through a spiral in each matter and antimatter pulse, it travels through a space of more than 360 degrees during each cycle. The theoretical number of degrees would be 370.95199; the double cycle, 741.90399.



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Diagram 3

Diagram 4

Showing the harmonic wave formation of a basic element and the six associated isotopes



WAVE FORM OF ELEMENT

The reciprocal harmonic of 370.95199 is 2.6957666^{-3} . As we see, this would be the value of 'E' in relation to Unified Equation 3 if the value of 'c' equals 143,909.0655 minutes of arc per grid second.

A quote I found in a book I was reading recently appears to confirm my theory of the double matter-antimatter cycle. The book is called *Beyond the Occult*, by Colin Wilson.

"Human beings are accustomed to the fact that if they turn round through 360° (through a full circle) they find themselves facing in the direction they started from. Not so an electron. By passing it through a certain type of magnetic field, its 'axis of spin' can be tipped through 360°, which ought to restore it to its original position. But it doesn't. The electron has to be turned through yet another full circle before it behaves as it did before. We cannot distinguish the difference between the two circles. The electron can—which seems to suggest that in the subatomic world a full circle is not 360° but 720°. In our world we have lost half the degrees we ought to have. Or to put it another way, there may be another dimension in the subatomic world."

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As my own research has shown me that physical reality is manifested by the harmonic nature of light, it appears logical that a vehicle constructed to the principles of harmonics will be required to set up the space-time fields necessary. If this is so, then the first criterion will be that the vehicle must resonate in perfect harmony with the complete table of elements in our physical Universe. If it does not, then it would be more than probable that any element or particle of matter not in harmonic resonance within the vehicle structure or payload would be left behind when the space-time field was activated. The results would be embarrassing, to say the least.

It would be impractical to construct a vehicle made from an alloy of the whole range of 144 elements in the theoretical atomic table. Apart from this, such an alloy is no doubt a physical impossibility.

The clue which suggests a method of overcoming this problem is the way that matter is built up in octaves of wave-forms. If an octave of elements could be combined which would set up a resonating field tuned to all the elements in the table and the unified fields of space, then maybe we would have a method of crashing the time barrier.

I put forward the following proposal for consideration. If an octave of elements is the answer, let us make a selection from the theoretical table of 144. If we divide 144 by 8, we get divisions of 18 units. Therefore we will select each of the elements we require, 18 units apart, as follows:

Atomic Number	Element
18	argon
36	krypton
54	xenon
72	hafnium
. 90	thorium
108	X — undiscovered element
126	Y — undiscovered element
144	Z — undiscovered element

It can be seen that the total harmonic value of the atomic numbers of the combined elements is 648. The square root of this number is 25.455844, the harmonic of which is found in the polar sections of the world grid system. The harmonic 25455844 is also directly associated with the Earth's magnetic field. Three recently discovered elements have atomic numbers of 116, 124 and 126. What we now need are numbers 108 and 144.

We would then be ready for the harmonic conquest of space.

The following theoretical tables, calculated by computer, demonstrate the unified nature of all the natural forces and are based on the assumption that the Earth is a perfect sphere.

The indications are that gravity, the speed of light and the Earth's magnetic field are all manifested from the same natural forces. Gravity, in fact, is the reciprocal harmonic of the speed of light, and vice versa.

If the theory can be proved, the knowledge could open up unlimited progress in many scientific fields—unlimited amounts of energy being one area of research.

The conversion factors used to convert the values into geometric units are as follows:

1 metre	= 39.37007874 British inches
12 inches	= 1 British foot
6,076 British feet	= 1 minute of arc
6,000 geodetic feet	= 1 minute of arc
1 kilometre	= 3,280.839 British feet

One minute of grid time equals 8/9ths of one minute of normal time.

Because of relativity, the equatorial values will always be indicated on all instruments of measurement. As the gravity and light speeds change, the geometric dimensions change in direct mathematical ratio. This relativistic change makes the speed of light appear to be a constant. It is, in fact, an acceleration or deceleration according to position in space-time.

The difference between the speed of light (gravitational reciprocal) at the equator, and the speed of light (gravitational reciprocal) at the pole, appears to be a very important harmonic factor. (See column G.) The computed value of 757.7876168 minutes of arc per grid second difference would allow the following harmonic calculations:

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757.7876168 x6x6x6x6x6	= 5892556.507
Reciprocal	$= 1.6970562^{.7}$
Squared	$= 2.88^{-14}$

2.88⁻¹⁴ is the harmonic of twice the speed of light maximum (288,000 minutes of arc per grid second).

757.7876168 x 2	= 1515.575233 (matter-antimatter)
1515.575233 x6x6x6x6x6x6x6x6x6	= 25455184408
Reciprocal	$= 3.928371^{-10}$

The harmonic 3928371 is related to the Earth's magnetic field.

Conversion Values for Unified Gravity and Light Tables:

X: Degrees Latitude (equator to pole):	0° to 90°
A: Gravity acceleration (metres/sec ²):	9.78039102718 at the equator
B : Gravity acceleration (feet/sec ²): A x 39.37007874 ÷ 12	32.0878970708 at the equator
C: Gravity acceleration (geodetic feet/sec ²): B x 6000 ÷ 6076	31.6865343030 at the equator
D: Gravity acceleration (geodetic feet/grid sec ²): C x 8 x 8 ÷ (9 x 9)	25.0362740172 at the equator
E: Gravity acceleration (mins.arc/grid sec ²): D ÷ 6000	4.172712336 ⁻³ at the equator
 F: Gravity acceleration (degrees/grid sec²): E ÷ 6000 (creates the harmonic reciproce) 	6.954520560 ^{-s} at the equator al of the speed of light—gravity)
G: Gravitational speed of light (min/grid scc): 10/F harmonic	143791.3643831903 at the equator

H: Harmonic linkage between speed of li and speed of light (air) at the Earth's si 10000000/G	
I: Speed of light, in air, at the Earth's surf (mins/grid sec): G + H Conver	ace 143860.9095887935 at equator ts to 299728.59 km/sec (299729 standard)
J: Harmonic linkage between speed of lig air, and speed of light, in vacuum: K - I	t, in 30.4547943968 at the equator
 K: Speed of light, in vacuum, at the Earth surface (mins/grid sec): G + 100.0005364402 Converts to 	l's 143891.3649196305 at equator 299792.0425 km/sec (299792.5 standard)
L: Harmonic linkage between speed of lig vacuum, and theoretical speed of light maximum (mins/grid sec):	
M: Speed of light (theoretical maximum) Earth's surface (mins/grid sec): , G + (H x 3) (Perfect	at the 144000 at the equator Converts to 300018.3793 km/sec conversion would be 144000 and 300000)

Table 2 demonstrates the conversion of gravity acceleration into 'speed'-of-light harmonics that are directly related to those published in the classical physics books. Due to relativity, we always read the values for the 'speed' of light calculated on our instruments at the equator, giving the illusion of a constant speed instead of an acceleration or deceleration.

The speed of light in air (column I) is calculated to be:

143,860.9096 minutes of arc per grid second.

Converted into classical values, this becomes:

143,860.9096 x 6,076 x 9 ÷ (3,280.839 x 8)	= 299,728.59 km/sec
Textbook value	= 299,729.00 km/sec

The 'speed' of light in vacuum (column K) is calculated to be:

143,891.3649 minutes of arc per grid second.

Converted into classical values, this becomes:

 $(143,891.3649 \times 6,076 \times 9) \div (3,280.839 \times 8) = 299,792.0425 \text{ km/sec}$ Textbook value = 299,792.5 km/sec

This demonstrates that the gravitational conversion values are very accurate.

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Table 2

Gravitational values (standard textbook) conversion to geometric harmonics of light. Due to relativity, the values at 0 degrees (the equator) are always read on all instruments.

Visible Light Spectrum

<u> </u>					
11 *1 *	1 ° 1			-	· · · · ·
0 8 38038103318430	12 00200202001506	11 686534103030303	76 01637401316388	0.004170710336184444	0.00006954520560324439
					0.00006954531782765506
2 9.78045413803733	32.08910412741907	31.68673876966991	25.03643557109723	0.004172719069659304	0.00006954565436415893
3 9.78053295451940		31.68699411949755			0.00006954621480273811
4 9.780643163125490		31.68735117360381			0.00006954699846058444
5 9.78078462958336		31.68780949697327	25.03728157785542	0.004172880262975904	0.00006954800438293174
		31.68835853120950			
			25.03624402584921		0.00006955067784958134
			25.03884316920337	0.004173140528200561	0. 00006955234213667602
		31.69064247977 176			0.00006955422217782554
10 9.76195347736965		31.69159633283415	25.04027364569612		0.00006955631568248922
11 9.78227755585469		31.69264628308712			0.00006955862010005403
		31.69379105132803			0.00006956113262294219
13 9.78301308211626	12.09649961324235	31,69502924283313	25.04298606841136	0.004173831011401894	0.00006956385019003156
14 9.78342363376734		31.69633934905678			0.00006956675949038527
		31.69777974946945			0.00006956988695728549
					0.00906957319882256684
17 9.78482034047707	32-10242893857309	31.70088440280424	25.04761236764775		0.00006957670102124387
	32.10413069491150	31.70256487318450	25.04894014671368	0.004174823357785613	0.00006958038929642669
19 9.785883267795240		31.70432807727851	25.05033329562746	0.004175055549271244	0.00006958425915452074
20 9. 786 452373372898	32.10778337720767	31.70617186689368	25.05179011705180	0.004175298152841967	0.00006958830588069944
21 9.767045659174499		31.70809399565639			0.00006959252454465052
22 9.78766240237268	32.11175328862430	31.71009212174881			0.00006959691000656176
23 9.768301651560876	32.11385121903175	31.71216381076210	25.05652449245401	0.004176087415409001	0.00006960145692348334
24 9.78896322766873	32.11602108815202	31.71430553866230			0.00006960615975563741
	32.11826025233383		25.05996459841227		0. 00006961101277336743
26 9.79034851177095	32.12056598350052	31.71879458541855		0.004176960603841126	0.00006961601006403877
		31.72113443628098			D.00006962114553916263
28 9.79181150571446					0. 00006962641294201356
29 9.79256993036558		31.72599154270834	25.06745010783893	0.004177908351303155	0.00006963180585505258
		31.72850288063729	25.06943437482452		0.00006963731770784590
31 9.79413601603432	32.13299217859031	31.73106535081335	25.07145904261795	0.004178576507102992	0.00006964294178504967
32 9.79494176901778		31.73367583176133			0.00006964967123459275
33 9.79576135920429		31.73633114151292			0.00006965449907602287
34 5.79659378804944					0.0000655604 1820903 312
35 9.79743804136693					0.00006566642142201173
36 9.79829309056413		31.74453345084356			
37 9.79915789389530		31.74733524274966			0.00006967865073854520 0.00006968486194254167
39 9.80091251764075				0.004181467646737347	0.00005969112744562245
40 9. 80180024069167	3 32.35813727261047	31.75589592423683	25.09107826132538	0.004181846376854230	0.00006969743961423716
41 9.80269342475436		31.75878966410496	25.09336467287305	0.004182227445478842	0.00006970379075798071
42 9.80359100182164		31.76369763643988	25.09566233002657		0.00006971037313896270
43 9.80449187833420		31.76463629832524			0.00006971657898123512
44 9.80539495671245	32.16993096034284	31.76754209382111		0.004183380028815948	
45 9.80629913669491	8 32.17289743010144	31.77047145829635	25.10259473248107		
46 9.80720331667733				0.004184151548677740	0.00006973585914462900
	7 32.17882673543218	31.77632661826745	25.30722103171749		
48 9.80900727156839				0.004184923189155925	
49 9.80590484863546		31.78215325248774	25. 11382479208908		
50 9.81079803269816				0.004185585200639459	
51 9.81168573554907	8 32.19056999852060 4 32.19346087814644	31.78792297418098	25.11638358453806 25.11863936564714	0.004186063930756343 0.004186439860941189	
53 9. 813440379494 53			25.12087519908586		
54 9.81430518282570		31.79640946574914			
55 9.81516023202289	9 32.20196926516699		25.12527775303793		0.00006979243820288308
56 9.01600448534038		31.80191487013109			
57 9.81683691418554		31.80461377507978	25 12056070250100	0.004188261632932316	
58 9.817656504 37204		31.80726708533136		0.004168631303418122	0.00005981018834030204
59 9.81846225735550		31.80987756577935			0.00006991591783984491
60 9.81925319145002	5 32.21539760974418	31.81244003595541	25.13575509013761	0.004189292515022935	0.00006982154391704891
61 9.82002834302424	4 32.21794075795355	31.61495137388436	25.13773935714319	0.004189623226190532	0.00006982705376984221
62 9.82078676767537	4 32.22042902780635	31.81740851988777	25.13968080583725	0.004189946800972875	0.00006983244668288124
	1 32.22285930772901	31.81980848031173	25.14157707086359	0.004190262845143932	0.00006983773408573220
64 9.82224976161887		31.82214833317414	25.14342584191537		
65 9.82295254847848		31.82442523172718	25.14522486654987	0.004190870811091645	0.00006984784685152740
66 9. 82363504572110		31.82663637793040	25.14697195293265	0.004191161992155444	0.00006985269986925740
67 9.82429642182895			25.14866497250813		
68 9.82493587101714		33.83085079484388	25.15030186259270	0.004191716977098783	
69 9.82555261421533		31.83284897093631	25.15188062888794	0.004191980104814657	
70 9.82614590001693		33.83477104969901			
71 9.82671500559458					0.00006987847032846794
72 9.82725923758081 73 9.82777793291275					0.00006988215860365093
74 9.82827045964006					
75 9. 82873621769479		31.84316316712324			0.00006988897265760931
76 9.82917463962248	8 32.24794829272470			0.004193525408070573	0.00006989209013450954
77 9.82958519127356	7 32.24929524696052	31.84591367373951	25.16220339655077		0.00006989500943486324
78 9.82996737245408	3 32.25054912222468	31.84715386526465			
79 9.83032071753513		31.84829663350556		0.004194034371490442	
80 9.83064479602016	1 32.25277164048616	31.8493465837585			0.00006990254394240560
81 9.83093921306949					
82 9.83120360998126		31.85115703056968			0.00006990818177531366
83 9.83143766462857					0.00006990962828067641
84 9.83164109185188	8 32.25560644293460				
86 9.8319551102643					
87 9. 83206533887042				0.004194758689329402	0.00005991264482215671
1 90 0 011141142000		11 84470414697710	36 16875 306 306497	0.004194797315644157	0.00006991320526073488
	4 32.25769073278383				
89 9.83219146368483	4 32.25769073278381 4 32.25784600946468	31.85435748136720	25.16887504700633	0.004194812507834385	0.00006991354179723974
89 9.83219146358483 90 9.8322072462051	4 32.25784600946468 15 32.25789778938692	31.85435748136726	25.16887504700631	0.004194812507834385	0.00006991354179723974

Table 2 (continued)

	G	ŀ	н	· .	- J	· K	-		Г м
	.	- <u>!</u>						· · · · · · · · · · · · · · · · · · ·	·
43751	.364383190 .132348861	3 69	.54520560324430	141860.3093887935	30.45533083695500	143891.364919630	5 108	.6350803695386 .6354170427658	144000.000000000
13790	116511066	0 69	.34565436415893	143859.9821874282	30.45488207603921	143890.437059504	Z 108	.6364266522869	143999.073496156
4 3789	277796989	3 69	.54621480273811	141858.8240117921	10.45432163745863 30.45353797962884	143889.278333429	3 108	.6381079679995	143997,916441397
43787	.657574718	5 69	. 54599846058449	143857.2045731791	30.45353797962889	143887.658111158	7 100		143996.398570100 143994.321884512
41781	.041260473	9 69	. 54923134421840	143652.5904918181	30.45130509597948	143883.041796914	1 108	.6471575924661	143991.688954506
43780	.010880700	7 83	. 55067784938)13	143849-6015585503	30.44985859061126	141880.051417140	9 101	6514971085417	14 1988, 7029 14249
43776	.610431740	3 63	. 55234213667602	143845.1627738772	30.44819430352072	143876.610958180	100	6564899698133	143985.267458150
43768	.396900836	7 69	.55611568248921	143837.9532165191	30.44422075772309	141868.397417276	9 108	.5584105072544	143977.065847884
41763	633976865	4 69	. 55882010005403	141833. 1925969655	30.44191634014715	143863.634513305	6 101	. 6753238599631	143972.309837165
43758	.441286533	4 69	56113262294220	143828-0024191564	30.43940381726134 30.43668625017744	143858.441822973	5 108		141967.124684402
43746	792804315	7 59	.56676949038527	143816.3593738061	30.43376694980543	143846.791340755	9 108	.6 997720309591	141961.516799351 143955.493112786
43740	.351406671	0 69	. 35988696728348	143809.9212936383	30.43064947292442	343840.351943113	3 106	.7091344616604	143949.061067572
1776	274071979	6 69	. 17670102124 388	143795.8507724908	30.42713761764248 20.42383541837289	141825.274608169		1.7295556215150	143942.228609084 143935-004174992
43718	. 653516341	1 69	. 38038929642689	143788,2359058375	10.42014714377001	143918-656052981	3 108	.7406314490654	143927.396684430
43710	.552749081	3 59	.5842591545207	143780.247008235	10.41627728569418	143810.663285521	5 108	.7522410233505	143919.415526544
41641	. 505650850	4 69	. 58820588069944	143761.1869936461	10.41223055950832 30.40801189554622	143791-595005141	6 100	.7770171917158	143911.070548472 143902.372042735
41684	. 540004064	9 69	. 5969 1000658175	141754.1369140715	30.40362643163187	143784.540540505	1 108	.7901935795380	143893.330734084
43675	.133195042	8 69	.60145692348314	143744.7548519673	30.39907991670466	143775.153931484	0 108	.8038343302615	143883.957755814
4 164 5	446205290	4 69	.6061597558374	143735.0523840463	30.39437668456230 30.38952366684680	143765.446743730	9 IUE 6 108		143874.264685557
43645	.118282475	8 69	. 6160100640187	143714.7342925398	30.38452637617593 30.37939098104192	143745.118818916	0 100	.8474917518477	143853.966312867
43634	.522565775	6 69	.62114553916264	143704.1437113147	30.37939090104192 30.37412349818624	143734.523102215	8 100	.8629001772788	143843.386002393
41612	. \$ \$ 2 767 28	0 69	. 61180585505255	141682.1645210811	10.16871059514907	141712.531301666	2 108	.8948811249575	143821.428184793
4 3601	. 16371338	7 61	.63731770784590	143670.8030310928	30.36321873235283 30.35759465515730	141701.166249824	9 108	.9114166833450	143810.077656508
4 3589	.569074560	3 69	.6429417830498	143659.2120163454	30.35759465515730	143589.569511000	5 10		143798.497899915
433//	74474698		. 65449907607786	141615.399746058	30.35186520562274	143655.744783421	0 108		143774.707744210
43553	.545285867	0 69	.6604182090131	143523.2057040760	30.34011823119363 30.33411901819501	143653.545822307	2 108	.9807181868237	143762.526540494
43541	.175158436	9 65	.66642142201174	143610.8415798805	30.33411501819501	141641-175594899	1 108	.9987278258195	143750.174422724
41414		9 69	.67865073854519	141585.6608634674	10.32803503918694 30.32188570164726	143615.982749169	1 109	.0354157754336	143725.018164944
43503	. 190237292	2 65	.68486194254160	143572.8750992347	30.31567449765862	143603-190773732	4 109	.0540493874287	143712.244823119
43499	. 28874303	8 65	. 69 112744562246	143559.9798704804	30.30940899456618	141590.289279475	0 105	.0728458966769	143699.362135371
41464	.22039973	6 69	. 70 74075798070	143533.9241904936	30.30309682595344 30.29674568222254	143564.220936175	R 109	.1108358337369	143671.331772009
43451	. 085 19704	1 6 9	.71017313896270	143520.7955701821	30,29036330123194	143551.085913483	3 109	.1299829766795	143660.215916460
43437	. 90452901	9 69	0.7165789B12151	343507.6211079971	30.28395745897433	143537 .905065456	1 109	.1492005035107	143647.054265959
43411	. 46954588	9 69	.7294 2981244742	14 1481.1989757014	30.27110662774066	14 1511.47008 712 9	1 109	-1877529971534	14 3620. 657835326
L43398	1.24765420	2 61	3.73585914462899	143467.9815113458	30.26467729357771	143498.248190541	4 109	.2070409936714	143607.455231635
41385	5.04430467	18 69	. 7422806436597	143454.7865853154	30.25825579653610 30.25184995427844	143485.044841112	0 109		143594.271146602
43356	. 75747007	14 61	.7350688669141	143428.5125389374	30.24546757328750	143458.758006510	6 109	.2646701605408	141568.022676671
41345	5.70595713	51 69	.76142001065764	143415.4673771461	30.23911642955500	143445.706493576	3 109	.2837235917686	143554.990217168
143333	2.73689195	65 65	.7677321792723	143402.504624132	30.23280426094425	143432.727428394	8 109		143542.040088492
4330	7.10898683	19 69	. 7802088863496	142376.885195718	30.22653075785181 30.22012755186317	143407.109523272	1 109	. 3400902188441	143516.449613491
14329	4.48124977	63 69	.7863592238664	143164.2676080003	30.21417821632349	143394.481786216	5 109	. 3585382314050	143503.840324 447
4328	L-99812894	49 69	3.7924382028830	143331.7905671478	30. 2080982373 1543 30.20209502431680	143381.998665385	2 105	3767781684583	143491.375443553
4 3 2 5 1	1.52605381	52 69	.80436054887194	142327. 110414 1650	30.14517589132395	143357.326590254	4 109	4125452064036	14 3466. 9191 354628
43245	5.36673720	59 69	. 8101883903020	142315.376925597	30.19034804988769	141345.567273647	1 109	4300287307124	143454.9973023779
4122	3.01127695 7.27184193	12:02	.8159178298449	142303.8271947983	30.17899452315760	143333.011011398	8 109 7 109	4640893109317	141441.259030478
41710	96853035	10 69	.8270527698422	143280.7955841208	30.17148267036141	143310.969056791	2 109	4806248693203	143420.449691660
4319	9.90885347	14 65	.812446692B8124	143269.7411001042	30.16R08975732420	141299.909189861	6 109	.4968036084319	143409.406193470
4318	9.10821915 8.97966668	24 69	. 8428495608760	141248.4275162433	30.16282235446852	141278.580201127	6 109	5280122424101	143188.108215365
4316	8.33590098	45 6	.8478468515274	143238.183747836	30.15760687913451 30.15268958866363	143268.33643742	7 109	.5410041143845	143377.879441539
					30.14783657094813 30.14313373877667				
4313	9.43505204	40 61	.86194 46183130	143209.297001666	30.13838562187856	141239.435588488	6 109	.5853124147197	141358.323998126
4313	0.45028789	04 69	9.86631508024431	143200.3166229701	10.13420135996421	143230-450824330	6 109	. 5984688005410	143340.049293131
4 3 1 2	1.80831729	52 69	9.8703537441953	5 143191.6788710394	30.12998269600212	143721.808853735	4 109	.6111247923982	143331.419978527
4310	5.58394037	10 8	9.8784703284679	143175.472410699	10.17205611174042	141205.59447681	2 109	6348745452124	143315.229351356
4 10 9	8.04104244	65 65	9.8821586036509	4 143167.9212010503	30.11837783651755	141198.04157888	7 109	.6459393707628	141307.687518257
4309	0.86993221	80 6	9.8856608023279	3 143160.755593120	30.11487563786795 30.11156178258602	143190.87046875	2 10	.6564459667716	143300.536914725
4307	7.70708753	14 6	9.8920901345095	143147.5991776559	30.10844610570500	143177.70762396	6 10	1.6757139633186	14 1287, 38 3 357924
4307	1.73117015	21 6	9.8950094348632	143141.6261795978	30.10552700533299	143171.731706593	3 109	.6844918643765	141281.416198456
14 306	3.16865698	71 61	9.8977370819526	141136.055383969	10. 10280943834910 30. 10029691536329	143166. 16919140			143275.861837973
4105	6. 31085701	A PD	9.9873419474056	143126.212600973	10.09799749779734	141156 11059147	1 109	.7070953870134	143266.017588858
14305	2.02580546	75 6	9.9046374470692	5 143121.930442914	30.09589899313869	143152.02634190	7 109	.71)]759010176	141261.739717808
14304	0.17851489	30 6	9.9065174882187	8 143118.085132383	30.09401895198971	143148.17915133	Z 109	.7190160244645	141257.898167159
14304	1.01335153	92 6	9.9081817753136	2 143111.722974819	10.09235466489914	143144.77363810 143141.81188797	4 10	.7240088857361	143251.542236181
14303	9.30291497	32 6	9.9108352419630	8 143109.313770215	10.08968119823840	143139.30345141	4 10	.7320792856894	143249.035480699
14303	7.24480310	29 5	9.9118611643103	143101.156664267	30.08867527588154 30.08789161805180	143137.24533954	1 10	1.7350470527308	143246.980386595
14303	4.49488127	14 6	9.9132052607358	8 143104.408086532	30.08733117947122	143124.49541771	16 109	1.7390793419909	143244.2344 97051
14303	3.80536903	75 6	9.9135417972397	4 141103.719910834	30.0869946429738	143133.80690547	77 10	.7400889515120	143243.546994429
				3 143101.490427711					

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40 The Harmonic Conquest of Space

Table 3

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----Suspected correction to allow for (the Lamb shift) between column F (visible light spectrum) and column F' (electromagnetic spectrum)

Electromagnetic Spectrum

 C. CONCENTACIONAL DE LA DEGREGATIONE DE LA DEGREGATIONE DE LA DEGREGATIONE DE LA DECEMPIONE DE		1	н.	G'	F*		<u>г</u>	×
 b. 0000055301721751240 b. 00000500077451 b. 000005500774501 b. 00000550077457311 b. 0000055007745731 b. 0000055077457311 b. 00000550774311 b. 00000550773111555641 b. 00000550773111555641 b. 00000550773111555641 b. 0000055077411 b. 00000550773111555641 b. 00000550773111555641		143830	210065819109	7143565390	0.00006954527915474419	0.80000000077561	0006954370560374439	
2 0.0000645053441581 0.000060007354 0.0000540734213181 1.7970.786.08146 1.2971.100581300 1.1970.7 3 0.00005407341 0.000054007341 0.000054007341 1.7970.700054150 1.2971.100581300 1.1970.7 4 0.000054007341 0.000054007341 0.000054007341 1.1970.70071453 1.2971.100591300 1.1970.7 9 0.00005450071441 0.000054007341 0.0000540071441 1.1770.700714557 1.2971.100591300 1.1971.7 9 0.00004550071441 0.0000540071441 0.00004540071441 1.1770.700714457 1.2971.100591300 1.1971.7 9 0.00004550071441 0.000005007141 0.0000540071441 1.1770.700714457 1.2971.100591300 1.1971.7 10 0.000045007141 0.0000540071441 1.0770.400714457 1.2971.100591300 1.1971.7 11 0.00004540071441 0.00004540071441 1.0770.40071444 1.2971.100591300 1.2971.100591300 1.2971.100591300 1.2971.100591300 1.2971.100591300 1.2971.100591300 1.2971.100591300 1.2971.100591300 1.2971.100591300 1.2971.100591	66032760G	143830	710065910308	. 9823226947	0.00006954539038865506	D.000000000072561	00006954533782765506	1 3 6.
1 0.000057-000773-01 0.00000773-01 0.000073-000773-01 0.000073-000773-01 0.000073-00073-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.00007500773-01 0.0000775-01 0.0000775-01 0.0000775-01 0.0000775-01 0.00007500773-01 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000075500773-010 0.000007500773-010 0.000007500773-010 0.0000000077501 0.00000000077501 0.00000000000000000000000000000000000	702184149	143829.	710065919308	.2865083499	0.00006954572692515893	0.00000000072561	00006954565436415893	20.
5 0.0000455400014723147 4.000045540071441 1475,477554775 37.2071005491500 14922,1 6 0.000045521421126740 0.0000400072541 0.00004552142112672 37.2071005491500 14922,1 7 0.000045521421126740 0.0000040072541 0.00004552142112672 37.2071005491500 14931,4 7 0.00004555116471470 0.0000040072541 0.00004555116471470 37.2071005491500 14931,4 10 0.000045551156471472 0.00000400072541 0.00004555116471471 37.2071005491500 14930,4 10 0.0000455115671471271 0.00000450071561 0.0000455115671471 37.2071005491500 14771,5 10 0.0000455115671471 0.0000455115671471 37.2071005411500 14771,5 10 0.0000455116871471 0.0000450071561 0.0000455117171541610127 37.2071005411500 14771,4 10 0.0000455116871471 0.000045007151 0.0000451171717171544161710 37.20711005411500 14771,4 10 0.00004511710411470 0.0000045007151 0.000045117171717154416170 37.20711005411500 14771,4	114847581	14 3828.	710065919308	1277746922	0.00006954628736373811	0.00000000072561	00006954621480273811	30
6 0.0006454(2)147(2)160(2)150(2) 0.000000077541 0.00006357(2)17751 0.00006357(2)17751 0.000057572171 0.00005772171	115640574	14 3826.	710065919308	4278567875	0.00006954807694393174	0.0000000000072561	00006954800439793174	5 0
1 0.0000495300744395114 0.0000495300744195114 1.17127.0000716351 3.0001495300744391145534 1.1712 3.71005513300744391 4.1712 3.71005513300744391 4.1712 3.71005513300744391 4.1712 3.71005513300744391 4.1712 3.71005513300744391 4.1712 4.71014440439 3.71005513300744391 4.1712 4.710144404439 3.71005513300744391 4.1712 4.710144404439 3.71005513300744391 4.171144744447100551310054317006513300744397 4.7111441444444444444444444444444444444			710065919308	.8912511903	0.0006954930390521839	0.000000000072561	00006954923134421839	60.
9 0.0000495472177197554 0.000040072541 0.00004554721771971971971971971971971971971971971971	845877226	143819.	710065919308	.9008776567	0.00006955075041058114	0.000000000072561	00006955067784958114	70.
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<pre>13 b. 000005505988686778845 0. 00000000072561 0. 000065569595372233854244 14732. 354 1664617 33. 28710065319300 14772. 44 17 b. 000045777010214487 0. 0000000072561 0. 000065732731238542464 14732. 3540264673 3. 2871005319300 14772. 47 18 b. 000045777010214487 0. 0000000072561 0. 000065954313175302.488 143707. 13181072.3 </pre>	590126057	143791.	710065515308	.6753025398		0.00000000072561	00006956385019003156	13 0.
<pre>16 0.0000657131982354644 0.0000000072561 0.0000673127118256644 14733, 1591066677 39 2021065919309 14775.40 18 0.0000595000507461236 0.000006007346 0.00004576735221404815772649 14716.105415700 19 0.00005950100581194 0.0000000072561 0.000059519771055052 14368, 137000441 39.2071005915309 14772.47 19 0.0000595010055119 0.0000000072561 0.000059519771055052 14368, 39000441 39.2071005915309 14772.47 19 0.0000595010055119 0.0000000072561 0.000059519771055052 14368, 39000441 39.2071005519309 14772.47 19 0.0000595010055119 0.0000000072561 0.000055519571055052 14368, 39000441 39.2071005519309 14772.47 19 0.0000595100755119 0.0000000072561 0.000056501271055052 14368, 39000441 39.2071005519309 14774.59 10 .000059510301 4170.50 10 .000059510301 4170.50 10 .000059510301 4170.50 10 .000059510301 4171.47 10 .000059510301 4171.47 10 .000059510301 4171.47 10 .000059510301 4171.47 10 .000059510301 4171.47 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4174.50 10 .000059510301 4154.5 10 .000059510301 4154.5 10 .000059510301 4155.5 10 .000059510301 4155.5 10 .000059510301 4155.5 10 .000059510301 4155.5 10 .000059511301 4155</pre>	265807246	143785.	710065919308	10428706587		0.0000000000072561	000009360/694903832/	14 0.
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68 0.0006/885194651946518405100.00000000072561 0.0000698202217931302 1401139.286302110 39.28710005519308 141316.58 60 0.0006588503508024100 0.000000000073561 0.00006984002412405 141310.510517161 39.28710005519308 141316.58 70 0.000659700537447318536 0.00000000073561 0.0000587062430519536 143112,13556453703 39.28710065519308 143163. 71 0.000059744731846754 0.00000000072561 0.0000587052430474 143105 415312 31027812783 2.28710065519308 143163. 72 0.00005974473184754 0.00000000072561 0.0000587052430474 143105,435419213 39.28710065519308 143141. 74 0.00059874473184754 0.00000000072561 0.000058705243044754 143105,455419213 39.2871005519308 143141. 74 0.00059874473184754 0.00000000072561 0.00005870523804774 143105,455419213 39.2871005519308 14314. 75 0.0005987473184754 0.00000000072561 0.00005870523804773 14370,4755463 39.2871005519308 14314. 75 0.000598757073153100 0.00000000072561 0.0000587012869314525180531 14007,5545132 0.2871005519308 14311. 75 0.000059875700315310 0.0000000072561 0.00005893061291863251860531 1430545861817 35.2871005519308 14311. 76 0.0000598757003154001 0.0000000072561 0.00005893061291863251860351 14307,5565132 0.2871005519308 14311. 76 0.000059875703146524 0.00000000072561 0.00005893061295812514075.3851548157 15.2871005519308 14311. 77 0.00005987577201955500 0.00000000072561 0.0000589306129581255 14071.385241801 39.2871005519308 14311. 78 0.0000598757720195520 0.000000000072561 0.0000589306129581252 14070,535151815 13.2871005519308 143116. 78 0.0000598757720195520 0.00000000072561 0.0000589306189550521410153954 39.28710055919308 14310. 78 0.0000598757720195520 0.00000000072561 0.0000589306189562125 143070.397453 99.28710055919308 14310. 78 0.000059877720195520 0.00000000072561 0.000058930618956212414004 39.28710055919308 14310. 78 0.000059877720195575001455105519308 14310. 78 0.000059877720195750014551050000000072561 0.000058930618955022141305.500149745397453974535319308 143105. 78 0.000059877720195750105519308 14310. 78 0.000059877720195751005195008 143100. 78 0.000059877720195751005519308	242793178	143197.	710065919306	.2405692519	0.00006985277243035741	0.000000000077561	00006985269986925740	66 0.
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Table 3 (continued)

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39.28371005591931	143863.9952769	193 39.2837100659193	143903.2789869852	90.93451404147989	143994.2135030257
39.28371006591931 39.28371006591931	143861.4586713	3221 39.2837100659193 886 39.2837100659193	143900.7423813680	90.93451404147989	143991,6768954295 143988.6865218959
39.28371006591931	143855.0278560	070 19.2837100659193	141894.3115660729	90.91451404147989	141965. 7460801144
39.28371006591931 39.28371006591931	143851,1416019	235 39.2837100659193 2403 39.2837100659193	1 143890.4253119894 1 143886.0980523062	90.93451404147989	143981.3598260309
39.28371006591931	143842.0514282	2062 39.2837100659193	143881.3351387721	90.93451404147989	143972.2696523136
39.28371006591931 39.28371006591931	143836.85874870	076 39.2837100659193 5716 39.2837100659193		90.93451404147989	143967.0769728150
39.28371006591931	143825.2102907	7905 39.2837100659193	1 143864.4940008564	90.93451404147989 90.93451404147989	143955.4285148979 143948.9871306902
39.28371006591931	143818.7689065 143811.9265268	8015 39.2837100659193	143851.2102368674	90.93451404147989	143942.1447509089
	143804.6916012			90.93451404147989	142934.9098253124 143927,2912858142
.39.28371006591931	143789.0803109	9168 39.2837100659193	143828.3640209827	90.93453404147989	143919.2985350242
39.28371006591933	143780.7232100	0949 39.2837100659193 5317 39.2837100659193	143820.006920160B 143811.2957765976	90.93451404147985	
39.28371006591931	143762.9576203	3759 39.2837100659193	1 143602.2413304418	90.93451404147989	343893.1758444833
39.28371006591931	143753.5710309		143792.8547409927 1 143783.1475724788	90.93453404147985	
39.28371006591931	143733.8480692	2749 39.2837100659193	1 143772.1317793408	90.93451404147985	143864.0662933823
39.28371006591931 39.28371006591931	143733.5359809			90.934514 0414 7985 90.9345140414 7985	
39.28371006591931	143702.0740175	5915 39.2837100659193	1 143741.3577276574	90.93451404147989	143832.2922416989
39.28371006591931	143679.5835034		1 143718.8672135612	90,93451404147985	143809.8017276027
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39.28371006591931	143656.1/49265	9014 39.2837100659193 9004 39.2837100659193 9004 39.2837100659193	1 143695.4596366347 143683.4458209673	90.93451404147989	143774.3803350088
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39.28371006591931	143607.0669621	1469 39.2827100659193	1 143646.3506722128	90.93451404147985	143737.2853862542
39.28371006591931 39.28371006591931		3063 39.2837100659193	1 143633.6838903722 1 143620.8919415766	90.9345140414798	143724.6184044137
39.28371006591931	343568.7067641	1199 39.2937100659193	1 143607.9904741858	90.93451404147985	143698.9249882273
39.28371006591931	143555.7115520	0123 39.2837100659193 0994 39.2837100659193	1 143594.9952620782	90.93451404147985	14 3685.9297761197
39.28371006591931	143529.5034997	7525 39.2837100659193	1 143568.7872098184	90.93453404147989	143659.7217238598
39.28371006591933 39.28371006591931	-143516.3226591 143503.1120336	1638 39.2837100659193 6699 39.2837100659193	1 143555.6063692297 1 143542.3957437158	90.9345340434798	343646.5408832711
39.28371006591931	143489.8877310	586 39.2837100659193	1 143529.1714411245	90.93451404147989	143620. 1059551660
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39.28371006591931	343450.2938373	1031 39.2837100655193	1 143489.5775471691	90.9345140414798	143580.5120612105
39,28371006591931 39,28371006591931	143424.1242791	1425 39.2837100659193	1 143476.4594749910 1 143463.4079892084	90.93451404147985	143567.3939890325 143554.3425032498
39.28371006591931	143433.1552409	387 39.2837100659193 7114 39.2837100659193	1 143450.4389510046 1 143437.5681127773		143541.3734650461
39,28371006591931	143385.5273891	1192 39.2837300659193	1 143424.8110991851	90.93451404147985	143515.7456132266
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	143349.0932342	2795 39.2837100659193	1 143387.3769443454	90.93453404147989	143478.3114583869
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39.28371006591931	143176.4598792	2148 39.2837100659193	1 143715.7435892808	90.93451404147985	143419.6053566217
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39.28371006591931	143156.3259665	5135 39.2837100659193	1 143195.4096765794	90.93451404147985	143387.2165602593
39.28371006591931		9163 39.2837100659193	1 143183.8712699822	90,9345140414798	143367.0262134913
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39.28371006591931	143236.8079893	3838 39.2837100659193	1 143276.0916994497	90.9345140414798	143274.8057840237
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39.26371006591931	143130.444737	7786 39.283730065919	1 143169.7284478449	90.9345140414798	9 143260.6629618860
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39.28371006591931	143120.2323050	0506 39.283710065919 6958 39.283710065919	1 143159.516035116 1 143157.005583761	90.9345140414798	143250.4505291579 143247.9400978032
39.28371006591931	143115.6637660	0978 39.283710065919	31 143154 .94 74761631	90.9345140414798	9 343245.8819902051
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39.28371006591931	143132.2253391	1697 39.283710065919	143151.509049735	90.9345140414798	9 143242 4435632771
35.28371006591931	143111.995743	7991 39.283710065919	31 143151.2794538650	90.9345140414798	9 143242.2139679065



(See unified electromagnetic table)

This section of the unified table demonstrates that the difference between the speed of light (gravity reciprocal harmonic) 143791.36438319, and the speed of light (maximum) 144000, is equal to three times the harmonic of gravity acceleration, 69.5452056.

These values, calculated at the equator, are always read on our scientific instruments due to relativity. Although the term 'speed of light' is used, light, or electromagnetic propagation, is in fact an acceleration depending on position in space.

The relative value for the speed of light in vacuum, 143891.36491963, also sets up a harmonic affinity with the electromagnetic propagation value, 143909.06548, because of its relationship with the minimum and maximum values.

Table 5

Section of gravitational conversion unified table showing the relationship of the visible spectrum and the electromagnetic spectrum. Values calculated at the equator (0° latitude).

F ·	G	Н	Ι	J	К	L	М
0.0000695452056014	13791.3643831969	9.54520561-	43860.9095887	930.4553308369	143891.3649196	108.63508036	9 i 44000
subtract				visible lig	ht spectrum		
0.09000000097256	٠						
Lamb shift				electroma	gnetic specti	rum	
0.0000695452781614	43791.214356539		·		143909.0654867		144000
	A		3928371 x	3	<u> </u>	90.9345140414	
Reciprocal of = harmonic 25		28371		90.9345140 = 25455844)414 x6x6x6 1	5x6x6x6x6	5
The harmonic	39.28371 x	3		$= (\sqrt{2c}) \times 1$ = $\sqrt{288} \times 6.$ = 117.8511		c' = 144000	0

Earth magnetic field A - Earth magnetic field B = 3928371 harmonic. See Unified Equation 2 where 'c' is equal to 143909.065486.

When the geometric values for the speed of light in air (143860.909588 minutes of arc per grid second) and the speed of light in vacuum (143891.3649196 minutes of arc per grid second) are converted into kilometres per normal second, we get the classical values in the textbooks (299729 and 299792.5).

The tables show, without doubt, that gravity acceleration is the harmonic reciprocal of the light factors, and vice-versa. This is the information required for the harmonic penetration of deep space.

The following tables will demonstrate how the unified values of gravity, light and the Earth's magnetic field are harmonically related to matter and antimatter. For demonstration I have picked out the gravity values at the equator, fifty degrees latitude, and the north and south poles, plus the gravity value related to the speed of light—143909.0655 minutes of arc per grid second.

Table 6 - Gravity acceleration values at the equator

Table demonstrating the harmonic relationship between the Earth's magnetic field, the speed of light, and gravity acceleration.



Table 7 - Gravity acceleration values at 50° latitude

Table demonstrating the harmonic relationship between the Earth's magnetic field, the speed of light, and gravity acceleration.



Table 8 - Gravity acceleration values at the north and south poles

Table demonstrating the harmonic relationship between the Earth's magnetic field, the speed of light and gravity acceleration.



Table 9 - Matter and antimatter table for the speed-of-light value 143909.0655 minutes of arc per grid second

Table demonstrating the harmonic relationship between the Earth's magnetic field, the speed of light and gravity acceleration.

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Chapter Two

THE CONVERSION OF GEOMETRIC HARMONICS INTO VALUES COMPATIBLE WITH THOSE IN CLASSICAL PHYSICS

Over the years I have had a running battle with the scientific fraternity regarding my use of geometric harmonics to demonstrate the unified nature of the Universe. It has been their contention that all my conclusions must be in error because there was no way that the values I use could be equated with those in the physics books. Chance, they said, if any of my calculations appeared to be valid when compared with classical values.

I present the following mathematical evidence to demonstrate that there is a way to bridge the gap between classical values and geometric harmonics.

In physics, the standard unit for wavelength is called the angstrom unit (abbr. Å).

One angstrom unit One metre

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 $= 10^{-10}$ metre

- = 39.370079 inches
- = 3.2808399 feet
- 5.39967⁴ minutes of arc (relative to the Earth's surface) (nautical mile)

 $5.39967 \div 6 \div 6 \div 6 \div 6 \div 6$

 $= 6.944^{-8}$

It appears that the angstrom unit is equal to the reciprocal of the maximum speed of light harmonic (144000) in the geometric tables— .6944' (repeating).

The Coulomb Converted to Geometric Harmonics

Usually an electrician measures the flow of electricity in amperes. The number of amperes tells us how many electrons flow past a_4 given point per second. Experiments show that if 6.25 x 10¹⁸ electrons flow past per second, we have 1 ampere. This number of electrons, 6.25 x 10¹⁸, is called the coulomb.

To convert this value to grid time we must use the ratio of 8:9, so: $6.25 \times 10^{18} \times 8/9 = 5.55555555 \times 10^{18}$

The harmonic value can be taken as: 5.555555555

We can now associate this harmonic with geometric values:

(See grid polar sections and Earth magnetic values.)

Also, if we assume that the 5.55555555 harmonic is associated with one full shell in the atomic structure, then:

5.55555555 ÷ 8	= 0.69444444 harmonic for each
	electron (light reciprocal)

The Relationship Between Electron Mass and the Harmonic Geometric Tables

Electron mass given as	$= 9.11 \text{ x } 10^{-31} \text{ kilograms}$
If we assume a full shell of 8 el	ectrons:
Total mass	$= 9.11^{-31} \times 8$
	= 72.88 ⁻³¹ kilograms

This would be for one matter-cycle, and to allow for the antimatter cycle we must double the mass for a complete matter-antimatter cycle.

Therefore,				
72.88 x 2	= 145.76 ^{·31} kilograms			
Reciprocal of 145.76	$= 6.8605927^{-3}$			
6.8605927 ⁻³ x the 6 harmonic	= 0.041163556 harmonic			
This harmonic squared	= 1.6944383 harmonic			
(See matter-antimatter harmonic table.)				
$(\pi \ x \ \phi)/3$, or				
(3.1415927 x 1618.034) ÷ 3	= 1694.401242 harmonic			
This would give an electron mass value of 9.1100998 x 10 ³¹ kilograms.				

This could have some significance.

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The Magnetic Monopole and the Fine-Structure Constant

A few years ago a group of scientists suspended a cosmic ray detector 130,000 feet above Sioux City in Iowa, in order to intercept atomic particles coming in from deep space. Amongst a shower of heavy particles there was one that was completely different from its neighbours. After much debate the scientists considered that the strange particle must be a magnetic monopole, the basic unit of magnetism. According to theory, in order to have complete symmetry between electricity and magnetism there must be a magnetic monopole. This would be similar to the negative electron or positive proton.

All known magnetic materials seem to be dipolar in nature, and no single north or south poles have been discovered before the event of this visitor from space.

A British physicist, Paul Dirac, calculated that there should be a basic magnetic particle that carries a north or south charge 68.5 times that of the electron, or some multiple of that value—possibly 137. This single number would be associated with the speed of light, the electron charge and quantum mechanics. I would add here, and gravitation.

The number 137 is known as the "fine-structure constant", which is the probability factor controlling whether an electron will emit or absorb a photon. Experiments have shown this value to be around 137 but as there are no absolute boundaries, only fuzzy edges, when dealing with electronic fields, I would expect the value of 68.5 in relation to the magnetic monopole also to be in the fuzzy category. According to my research, I would make this value 68.50725813.

The fine-structure constant would therefore have a value of 137.0145162. This would make it possible to speculate.

I believe that the magnetic monopoles exist and that the creation of matter is dependent on the coupling of the poles into individual units. I can visualise streams of monopoles, both of positive and negative charge according to their spin, passing through each other and pairing off to form physical particles. The process would be much the same as the closing of a zipper. I described a similar process in the formation of the natural energy grid. The process would be complicated slightly by the fact that the monopoles would have respective anti-monopoles in a mirror-image reality, which manifests at a pulse rate tuned to the speed of light.

If the basic magnetic particle, or monopole, carries a charge that is 68.50725813 times greater than the electron, then we could expect the volume of the surrounding field to be directly related to this value. So, if we assume that the radius of the spherical field of the monopole is 68.50725813 units, then:

Volume of the monopole's spherical field: (4 x 68.50725813 x 68.50725813 x 68.50725813 x 3.141592654)/3 = 1346785.298 cubic units

To allow for the matter-antimatter cycle, we would then have to double this result:

 $1346785.298 \times 2 = 26935706$

The harmonic of 26935706 is equivalent to the value for 'E' in geometric Unified Equation 3, if the value for 'c' is equal to 143791.36438 minutes of arc per grid second (the harmonic reciprocal of gravity acceleration 6.95452056^{-s}). (See unified tables.)

If 'c' = 143791.36438, then '2c' = 287582.7286.

Calculation by harmonics:

$$E = \sqrt{[(2c + \sqrt{1/2c}) \times (2c)^2]}$$

= $\sqrt{[(2875827286 + 5896829800) \times (82703825)]}$
= $\sqrt{(8772657086 \times 82703825)}$
= $\sqrt{7255323}$
= 26935706 harmonic

The Fine-Structure Constant:

It is said that Dr Edward Teller, the nuclear physicist who helped to develop the hydrogen bomb, derived a value for the fine-structure constant—or alpha, as it is known—from gravitation. Many well-known scientists have tried and failed to figure out how the magic number of alpha could be comfortably fitted into the quantum theory. One particular scientist spent many hours multiplying pi by a series of numbers hoping to come up with the value of alpha.

I found that if I divided my theoretical alpha by the constant phi multiplied by pi, I could get an interesting result:

Could this be an accident? The harmonic 26954363 is the value for 'E' in Harmonic Unified Equation 3, if 'c' is equal to 143891.36438 minutes of arc per grid second (the speed of light in vacuum). (See unified tables.)

If 'c' = 143891.364919, then '2c' = 287782.7298.

Calculation by harmonics:

$$E = \sqrt{[(2c + \sqrt{1/2c}) \times (2c)^2]}$$

= $\sqrt{[(2877827298 + 5894780400) \times (8281889957)]}$
= $\sqrt{(8772607698 \times 8281889957)}$
= $\sqrt{72653771590}$
= 2695436358 harmonic.

Chapter Three

INTERESTING ACTIVITY IN KAIPARA HARBOUR AUCKLAND, NEW ZEALAND

In late 1969 I was contacted by an engineer who worked for the Ministry of Works in Auckland. He had been told of a sighting I had had of an unidentified undersea object in the Kaipara Harbour area just north-west of Auckland city, and wanted to get some details of the incident from me. It was his intention to check the area. The sighting was made years before on 12th March 1965 and had caused some fuss with the Naval intelligence people when I had delayed reporting it for a short time. In those days I was a bit reluctant to let others know of my interest in any unidentified activity, be it on land, in the sky or water.

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I gave the engineer the information he required and showed him the position as accurately as I could on an airways map. Shortly after this, on 5th September 1969, he investigated the area in a small boat and took some readings with a depth-sounder. He informed me later that as he was passing over the area at a speed of 7 knots with the depth-sounder indicating an average depth of 40 to 50 feet, the meter needle commenced to swing back and forth from 0 to 120 feet (the full extent of the range scale). The action was quite violent. This continued until he was abeam a position called black beacon. The meter then acted normally. He swung round and returned to the area and the meter reacted the same way. At the time the magnetic compass in the boat was stable.

It was from this position that all my investigations into the grid system and calculations commenced, and I know now that I would not have one fraction of the knowledge I have today if I had not made the flight that morning. What I did not know until recently when the computer programs were available to convert normal latitude and longitude positions into their grid equivalents, was the mathematical association with the unified tables. It has taken over twenty years of hard work to understand what the geometric and mathematical relationships mean.

The engineer told me that a great hole had been discovered in the harbour-bed at the point of the disturbance, which indicated that my mysterious visitor had carried out some activity there. Whatever was left behind had an electronic imprint. The position he gave in his report was as near as he could get at:

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Latitude 36° 29' 00' south / Longitude 174° 19' 15" east.
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The latest conversion programs show a most likely position of: Latitude 36° 29' 00.57603" south / Longitude 174° 19' 30.2344" east.

This is where the maximum disturbance should be.

When this is converted to grid latitude and longitude, the values are: Latitude 33° 48' 15.53652" south / Longitude 72° 43' 02" west.

Grid harmonics are as follows:	
Latitude 33.8043157 south:	
56.1956843 - 33.8043157	= 22.3913686 (in 90° sector)
22.3913686 x 6 x 6 x 6	= 4836.535617
Square root of 4836.535617	= 69.54520556
Reciprocal	= 0.014379136
Harmonic	= 143791.36

The gravitational reciprocal 'speed' of light. (See unified tables.) Longitude 72° 43' 02" west:



The great-circle distance of the Kaipara sighting position to longitude zero and longitude 90° (the calculated error would be ± 50 feet).

3541.510879 - 860.634121	= 2680.876758 minutes of arc
Harmonic shift x 6 x 6 x 6 x 6	= 3474416.276
Multiplied by 2	= 6948832.552
Reciprocal	$= 1.439090655^{-7}$
Harmonic	= 143909.0655
The speed of light, electromagne	tic.

The engineer continued to show an interest in my work and I had fairly close contact with him over a period of about eighteen months. He visited me at home several times and I went twice to his flat in Parnell, Auckland city. All other contacts were by phone, usually in the late evening. It became obvious after a while that he had access to far more information than I had and he passed small bits of data on to me from time to time in order to help me with my calculations. I did not have calculators or a computer to work with in those days, and he showed me how to work out great-circle tracks using mathematical formulae. It took me hours of work to get an answer to a problem which now takes a few minutes on the computer.

During one of his visits he handed me some maps of the Kaipara Harbour area which were copies of those used by the Ministry of Works. One was a general survey chart of the harbour showing soundings carried out by the Navy. This was useful in order to plot the position of the unidentified underwater object.

The other chart was far more interesting. It showed the method of construction and positioning of accelerographs to investigate the area for a North Auckland Nuclear Power Station. This was quite a surprise because I knew the public was not aware of this activity, and to this day I do not think there has been any mention to the public that such investigations have ever been carried out in New Zealand. Nuclear power is a very touchy subject in this country. The majority of New Zealanders do not want any of these stations constructed here. I would agree with this wholeheartedly, as I know without doubt that there are far safer means of generating electrical power. I still have these maps in safe keeping.

The accelerographs were positioned at Te Kawau Point and Oyster Point. I studied the maps again recently and wondered why they had positioned two accelerographs in the area. Maybe there was a geometric link between the two. I carried out some calculations on the computer and found that I could fit a set of unified harmonics very closely with the positions shown on the map. I agree that my calculations are only theoretical because no actual latitudes and longitudes are given on the Ministry map, but when the positions are transferred to a survey map, the close correlations look very suspicious.

The theoretical distance between the two instruments was 12.36506652 minutes of arc (nautical miles), and the track angle 309.9747404 degrees.

Harmonics of track a	ngle: = 309.9747404 degrees	
	- <u>270.000000</u>	
	= 39.9747404	
39.9747404 x 6 x 6	= 1439.090655	
m1 · · · · ·		

This is a harmonic of 143909.0655 minutes of arc per grid second (electromagnetic).

Harmonics of distance	= 12.36506652 minutes
12.36506652 x 6	= 74.19039912
Divided by 2	= 37.09519956
Reciprocal	= 26957666 harmonic
The survey of The Gold Develop 2	Station and the 142000 065

The answer to Unified Equation 3 if 'c' is equal to 143909.0655.

The geometric positions of the accelerographs also indicated an association with unified harmonics within a very small margin of error. This could of course be coincidental, but the mathematical evidence strongly suggests otherwise.

I have often wondered over the years whether there is any intention of completing the project. Hopefully not.

The engineer continued making the occasional phone call to discuss various aspects of my research and showed particular interest in my knowledge of the methods used to detonate an atom bomb. I had discovered, quite by accident, that the geometric coordinates and mathematical values found in the grid system were applicable to atom bomb tests. I had a hunch that the unified equations I had discovered would have to be applied if the matter were to be disrupted. Einstein had stated that "the whole of our physical reality was manifested by the geometrics of space and time", so it was logical to assume that if we wished to destroy matter then a reverse geometric process would have to be set up. In other words, the relative motions of the atomic structure would have to be reversed at an instant of time to unlock the geometrics of the physical substance.

Thinking along these lines, I came to the conclusion that the relative motion between the Sun and the Earth at the critical time must have something to do with it, so I began to check the Sun position at the time of atom tests and found to my surprise that the geometric harmonics were evident at the time of detonation. The movement of the Sun in relation to a particular point on the Earth's surface was the final trigger for the bomb. The bomb was constructed geometrically. At the instant of detonation, the unstable matter within the bomb was imploded geometrically towards a central point—which guaranteed that a certain percentage of the material was moving in a certain direction—and the relative movement of the Sun-Earth relationship completed the combination of movements to make the atomic structure fly apart.

Also to complete the pattern, the bomb had to be set up on, over or below a certain geometric point on the Earth's surface.

This, of course, made it a bit difficult if you wished to wage a nuclear war. Each bomb would have to be programmed for a certain place and detonated at a certain time. Of course, your enemy would have the same problem and both sides could compute in advance the positions the enemy could hit. Stalemate. This problem was not a deterrent during the last world war when America destroyed Hiroshima and Nagasaki because they were the only ones who had constructed the atomic bombs. They had plenty of time to precalculate all the parameters necessary and make sure the bombs were dropped at the appropriate time. The Sun moved into position while the bombs were descending.

After I published all this there was a bit of a fuss, and I was contacted by various scientists and intelligence people.

The engineer asked me if I would precalculate a bomb test for him in order to prove the point. I was a bit reluctant as my knowledge of the process was very basic and I knew I had been lucky to get away with some calculations I had carried out for other government departments.

I had no idea of the number of geometric combinations that could be used to ensure an atomic detonation (and still do not to this day), so I could not be sure that any set of parameters that I came up with would be used for a particular test. I had cracked the secret but my knowledge was very limited. It was far easier to wait until a test had been carried out, then work backwards and find the geometric harmonics used by studying the Sun tables, time of detonation and the position of the bomb site, and work out the spherical triangle, formed by the combined information, on the Earth's surface.

The request from the engineer was therefore a real challenge, but to maintain my credibility I felt I had to at least \mathbf{w} y to come up with something.

The test, he told me, was to be held on Amchitka Island in the Aleutian chain during the next month or so. Could I work out the date and the time?

I spent about three hours that evening working out every combination that I could think of from a study of the Sun tables covering the next few weeks, and came up with only one possible time according to my limited knowledge. Well, go for broke, I thought, so I phoned him about 10.30 pm and passed on the information. He said he would contact me the next evening.

He called, as promised, and advised me that my calculations were not correct. I was obviously a bit disappointed but not too surprised, and said that I could not find any other date or time. If there were other possible times then I did not have the necessary knowledge to work them out. We left it at that.

Two days went by, then he called again. "You are right," he said. "If the bomb goes off, we will talk some more."

Three weeks went by, and at 22.00 hours GMT on 6th November 1971 the bomb went off. This was during the morning in New Zealand. I was one hour out in my calculation which was not too bad, I thought, considering the little I knew about the process. I knew the phone had to ring and I waited expectantly all day.

At about 7.30 pm the call came. He congratulated me on the effort but seemed a little hesitant on what to say next.

I chuckled and said, "You have a problem."

"What makes you say that?" he asked.

I replied, "Well, I believe that you have to offer me a job."

"What makes you think that? Do you know who I am?"

"I believe that you are working for some intelligence group, possibly the CIA."

He had a slight American or Canadian accent and it was obvious he

had contact with top people overseas. He had shown me radio gear in his flat and said he had contact with many stations around the world. Also, the bits and pieces of information he had passed on to me over the months indicated without doubt that he was involved in some of the secret work going on.

He admitted that he worked for the CIA and that, yes, there was a job offer.

I asked where I would be working, for whom I would be working, what I would be doing, and how much they were going to pay me.

None of these questions could be answered, he said, unless I said yes to the offer.

All he could say was that if I worked for them, my family and I would never want for material things for the rest of our lives.

I asked for time to think and spent the next two days mulling it over. It was very tempting.

This was the type of work I really wished to be involved in. But all the negative sides to the offer put a damper on things. I realised that they did not want me for my knowledge. What I knew was kindergarten stuff compared to the scientists involved.

The main reason they wanted me was to shut me up. Probably put me in some out-of-the-way place and give me a boring and menial job to do and pin me down with the secrets act. Plenty of money and no real future for myself and family.

I contacted him and told him no.

To my surprise, he patted me on the back for my decision. I asked him why he thought that way and, if he was not happy about being involved himself, why he didn't get out.

He indicated that the penalties would be too great. He was involved for good. But he doesn't have to worry now, having passed away a few years ago. He was a very likeable guy and we got on very well during our months of contact.

Shortly after this, I contacted the Security Intelligence Service and told them what had gone on over the months and the reasons why I had turned the offer down—one being that I had a hunch I might be committing treason if I worked secretly for a foreign government. Evidently this could have been so.

I have not worried much about atom bomb tests since that time. I wrote about the geometric make-up of the bomb and the necessary geometric parameters for detonation in my earlier books, but nobody
believed it.

It is obvious, if what I say is true, that an all-out nuclear war is completely illogical and highly improbable. Now that several countries have the secret, it is a stand-off. Conventional weapons are so advanced now—they do the job just as well and are far cheaper.

Hopefully the public will wake up one day and realise they are being conned.

Chapter Four

THE HARMONICS OF HIROSHIMA AND NAGASAKI

It was 1971 when I first published the fact that atomic bombs were geometric devices that had to be detonated on specific geometric positions, and that the timing of the detonations had to be calculated with extreme accuracy. The process was directly related to the geometrics of the Earth and Sun positions. The problem is that of relative motion in space, and the Earth-Sun positions create the final trigger to unlock the atomic structure. Einstein laid down the rules when he stated that, "all physical reality is manifested by the geometrics of space and time". It follows, logically, that to disrupt matter we have to arrange a geometric system that will reverse this process.

When an atomic device is detonated on a fixed point at a testing ground, the calculations are relatively easy but if a bomb is to be dropped from an aircraft, the problems of geometric position and accurate timing become much more difficult.

It amazes me that after all these years no one has asked the question, "What about Hiroshima and Nagasaki?" If the timing had to be so accurate, just how was it possible to drop the bomb from an aircraft and have a successful explosion? The answers to this are on public record. For months before the bomb drops, the especially-picked aircrews carried out intensive training and practised dropping dummy bombs into three-hundred-foot-diameter circles from high altitude with split-second timing. They became very skilled at hitting the target within the 150-foot radius margin of error. This is probably close to the maximum allowable error in order to guarantee a successful detonation.

The truth is that an atomic bomb has to be released from the aircraft at a precalculated split second of time so that when the device has reached the planned altitude for detonation, the Sun has moved into the

required position relative to the Earth's surface to complete the combination of relative motions necessary to disrupt the geometrics of the atomic structures within the critical mass.

A possible hint that accurate timing is essential for a bomb drop may be found in what is said to be "the crazy, hit-and-miss story of why the bomb was dropped on Nagasaki". The only person who was on both bombing missions over Japan was Jacob Beser. During an interview with the *Washington Post Weekly*, he said that the drop on Nagasaki actually missed the target. According to him they intended to bomb the residential area of the city, but in fact the bomb exploded at the far end over the Mitsubishi Heavy Industries Arsenal.

The activity before the bomb was dropped was also most unusual. The primary target, according to the official records, was the city of Kokura, but when the aircraft arrived overhead it was smoked and hazed in and, although they were said to have possible fuel problems, they circled around for over an hour before they proceeded to the secondary target, Nagasaki. During this time of apparent indecision, Japanese fighter aircraft were trying to reach them at their high altitude in order to shoot them down.

Many other excuses were made for the apparent error in the detonation point and the delay in getting the job done, but I believe that the answers are quite straightforward:

(1) The bomb was not dropped off target. Within a small margin of error it was positioned right where they wanted it to be. Calculations now indicate this, as demonstrated.

(2) There was no indecision while the aircraft was apparently in aimless flight around the Kokura area. They had to wait until the geometric relationship between the Sun position and the target point was viable for a successful detonation.

It was only in recent years that I was able to get hold of the information necessary to calculate the relationship of the Sun positions and the epicentres of the Hiroshima and Nagasaki explosions. A contact in the United States sent me computer copies of all the times, dates, detonation sites and Sun positions, from the first test at Alamagord up to 1985. The following are those for Hiroshima and Nagasaki respectively.

Date	Time	Latitude	Longitude	Sun GHA	Sun DEC.
GMT	GMT				
5 Aug 45	23.266666	34.3913888°N	132.458055°E	167.53758	16.90122°N
9 Aug 45	2.033333	32.7701°N	129.865622°E	209.12833	16.01111°N



Diagram 5

From this data we can now re-calculate the geometric coordinates for the two wartime bomb-drops.

Actual values given for the detonation point and the Sun position.

The distances between points are calculated as sections of great circles.

HIROSHIMA

First of all we will analyse the harmonic values of the detonation point. It would have been a miracle if the bomb-aimer had been able to place the bomb exactly on the previously calculated point from such a high altitude, so we can assume a slight error within the 150-foot allowable radius from dead centre. Computer calculations indicate that the error was in fact approximately 111 feet in latitude and 104 feet in longitude. The calculated position for detonation: Latitude 34.391697° north / Longitude 132.45840768° east.

Latitude Harmonics:

The small-circle circumference of latitude 34.391697° is equal to 17,824.21975 minutes of arc, or nautical miles relative to the equator.

21,600 - 17,824.21975	= 3775.78025 minutes of arc	
$3775.78025 \div 6 \div 6 \div 6 \div 6 \div 6$	= 0.485568447 harmonic	
Reciprocal	= 2.059441887 harmonic	
Multiplied by 2	= 4.118883773 harmonic	
Squared	= 16.96520354 harmonic	
Squared	= 287.8181310 harmonic	
Divided by 2	= 143.9090655 harmonic	
The harmonic of 143000 0655 minutes of are per grid second (

The harmonic of **143909.0655** minutes of arc per grid second. (See electromagnetic light and gravity tables.)

Longitude Harmonics: To calculate for the 90° sector:

132.4584076 - 90	= 42.4584076°
90 - 42.4584076	= 47.5415924°
47.5415924 - 42.4584076	= 5.08318480°
Divided by 6	= 0.847197466 harmonic
Multiplied by 2	= 1.694394933 harmonic
Squared	= 2.870974190 harmonic
Divided by 2	= 1.435487095 harmonic

This would be the harmonic of the actual speed of light at that latitude: 143548.7 minutes of arc per grid second.

This can be calculated very accurately by the world grid computer program we now have on the market. (Also see the light and gravity tables for interpolation.)

From this we can see that Hiroshima was obviously a viable position for the detonation of an atomic device.

The latitude displacement (A - B) between the detonation point and the Sun position was calculated to be:

	17.4901688°
	= 1049.410128 minutes
21,600 - 1,049.410128	= 20550.58987 minutes
20550.58987 - 1049.410128	= 19501.17974 minutes
19501.17974 ÷6÷6÷6÷6÷6÷6	= 0.069662993 harmonic
Reciprocal	= 14.35482385 harmonic

Again, we have a harmonic which is within a minute fraction of the actual speed of light value of 143548.7 minutes of arc per grid second at the detonation point. (See tables.)

Longitudinal displacement of the detonation point and the Sun position (B - C):

Allowing for a one-second error in the given detonation time, the greatcircle distance (actual), (B - C), would be:

	3430.252471 minutes of arc
3430.252471 x 6	= 20581.51483 harmonic
Multiplied by 2	= 41163.02965 harmonic
Squared	= 1694395010 harmonic
Squared	= 2870974450 harmonic
Divided by 2	= 1.43548722 ¹⁸ harmonic

We have, again, the harmonic of the actual speed of light at the detonation point: 143548.7 minutes of arc per grid second. (See tables.)

The final harmonic, allowing for the one-second error in the detonation time, would be created by the great-circle distance between the detonation point and the Sun position, (A - C):

	3361.1253 minutes of arc
3361.1253 x 6 x 6 x 6	= 726003.0648 harmonic
The square root	= 269.4444

This is the harmonic result derived from Unified Equation 3 when the speed of light is reduced by the harmonic of phi, or 1618.034. (See mathematics of the grid.)

All in all, an excellent set of results, allowing for the maximum error of 111 feet in the detonation point and one second in given time.

NAGASAKI

To initiate an atomic explosion, the critical mass of the bomb material has to be assembled very quickly so that it does not blow apart before the atomic reaction has been completed. Uranium-235 had been used for the Hiroshima bomb and a gun-type device was used to bring the segments of uranium together to complete the required spherical mass.

The Nagasaki bomb was of a different type. Plutonium was used to create the critical mass and it had been found by experiment that the gun-type method used to assemble the material was not fast enough to stop premature detonation. A new method was therefore designed which consisted of shaped charges arranged in a spherical pattern around an inner hollow sphere of plutonium. When the charges were simultaneously detonated, the resulting implosion squeezed the hollow plutonium sphere into a dense critical mass at such high speed that an atomic reaction was guaranteed to take place.

Both methods, of course, depended on the geometric placing of the device on the Earth's surface.



Because of this difference in geometrics, it was more difficult for me to calculate the most likely set of coordinates used to explode the plutonium core. I spent many hours on the computer and finally came to the conclusion that the bomb was almost perfectly placed on the target. The timing for the Sun position appeared to be about one second in error. The following geometric pattern was evident:

Location of detonation point: Latitude 32.770152° north.

The geometric harmonics associated with this position formed an unusual combination. I had discovered, during other research, that curved and straight-line coordinates were sometimes used in the positioning of certain scientific projects. When I was finding it difficult to calculate accurate harmonics for the given Nagasaki detonation point, I decided to try the combination of curved and straight-line coordinates between the equator and Nagasaki—one coordinate being the great circle or curved distance over the surface of the Earth, and the other, the direct chord distance between the points. A fractional change in the latitude value gave the following results, an error of 18.72 geodetic feet off target.



Great circle distance (A - B)	= 1966.20912 minutes of arc
Direct chord distance (A - B)	= <u>1939.518767</u> minutes of arc
Difference	= 26.690367 minutes of arc
26.690367 ÷ 6 ÷ 6 ÷ 6 ÷ 6	= 0.020594418 harmonic
Multiplied by 2	= 0.041188837 harmonic
Squared	= 1.6965203 ⁻³ harmonic
Squared	= 2.8781813 ⁻⁶ harmonic
Divided by 2	= <u>1.439090655</u> harmonic *
The harmonic of the electromagne	tic speed of light, 143909.0655 mi

The harmonic of the electromagnetic speed of light, 143909.0655 minutes of arc per grid second. (See tables.)

Detonation point: Longitude 129.8656222° east.



Great circle distance (A - B)	= 1998.976448 minutes of arc
Great circle distance (B - C)	= <u>2504.420987</u> minutes of arc
Total distance	= 4503.397435 minutes of arc
4503.397435 ÷ 6 ÷ 6 ÷ 6 ÷ 6	= 3.474843696 harmonic
Multiplied by 2	= 6.949687392 harmonic
Reciprocal	= 0.143891364 harmonic

The harmonic of 143891.364 minutes of arc per grid second (speed of light in vacuum). (See tables.)

The ratio relationship of the speed of light in vacuum to the speed of light (gravity) and the speed of light (maximum) also sets up a harmonic resonance of 143909.0655.

The latitude displacement of the detonation point and the Sun position (A - B):

A - B	= 1005.581133 minutes of arc	
21600 - 1005.581133	= 20594.41887 minutes of arc	
Multiplied by 2	= 41188.83774 harmonic	
Squared	= 16965203540 harmonic	
Squared	= 2.8781813 ¹⁸ harmonic	
Divided by 2	= 1.439090655 harmonic	
The harmonic of 143909 0655 minutes of arc per grid second (electro-		

The harmonic of 143909.0655 minutes of arc per grid second (electromagnetic).

The longitude displacement between the detonation point and the Sun position, (B - C):

50.8740888 - 129.8656222
1.0084666
÷6÷6÷6
.4744162 ⁻⁷ harmonic
.9488325 ⁻⁷ harmonic
439090.655

The harmonic of 143909.0655 minutes of arc per grid second (electro-magnetic).

The displacement between the detonation point and the Sun position. (A - C):

Displacement (great circle)	= 1520.305 mins of arc (± 60 feet)
Displacement (chord distance)	= <u>1507.946375</u> minutes of arc
The difference	= 12.358625 minutes of arc
12.358625 ÷ 60	= 0.205977083 degrees
Multiplied by 2	= 0.411954166 harmonic
Squared	= 0.169706235 harmonic
Squared	= 0.0288 harmonic

This is the harmonic of 288000, twice the maximum speed of light of 144000 minutes of arc per grid second (relative to the Earth's surface).

There does not appear to be any doubt that the Nagasaki bomb was dropped almost right on target, with pinpoint accuracy. A remarkable feat under the circumstances.

An all-out atomic war would be a cumbersome exercise under these geometric conditions. Breeder stations that produce the atomic material for the manufacture of bombs also require placement on a geometric position, according to the evidence. This would make the checking of any other countries wanting to get into the game fairly easy.

Chapter Five

ARE MYSTERIOUS EXPLOSIONS THE RESULT OF SECRET RESEARCH?

My first book, *Harmonic 33*, published in 1968, described a number of massive explosions which occurred in the Auckland city area, a major city in the north island of New Zealand. Two of these reported as follows:

22 March 1957:

"City Explosion Puzzle For Police

An extensive police search failed to find the source of a violent explosion which rocked the central police station and nearby buildings in Wellesley and Rutland streets at about 10 o'clock last night.

Mr T. J. Burrows of 8 Ferncroft Street, Grafton, was passing the Seddon Memorial College when the explosion occurred. He described it as "a muffled kind of explosion which shook the pavement and seemed to come from inside the building".

In the belief that a large safe had been blown, detectives and uniformed police searched the College and the offices of the education board. The College engineering workshops and a number of other premises were also inspected.

Constable P. Wiseman with others, saw a flash from the upstairs window of the Central Police Station, followed by the percussion of an explosion which was heard as far away as the Auckland Hospital.

The weather office rules out the possibility that the noise came from an isolated thunderclap. Some thought it may have been caused by a fireball." 23 September 1966:

"City Shocked Awake as Explosion Rips Factory

Thousands of Aucklanders were awakened at 4 am today by a massive explosion which tore apart a foundry at Rosebank Road, Avondale, and caused widespread damage to adjoining buildings.

No one was injured in the explosion, but one family, whose house about 60 yards away from the blast was lifted from its foundations, said everything "lit up like day" as glass showered into the house from blown windows.

The blast, which was heard as far away as Waiuku, 27 miles away, ripped 30-feet-long sheets of roofing iron from their supports and tossed them into twisted heaps on neighbouring gardens up to 100 yards away. It snapped heavy steel reinforcing beams supporting the foundry roof and tore concrete blocks from the foundry walls and threw them into gardens."

The report continued with a general description of the damage, then followed on with an interview with Mr E. C. Knibbs, the owner of the house immediately next door to the factory. The wooden house, which was lifted from its foundations, also had its roof cracked and almost every window broken.

Mr and Mrs Knibbs said they were first awakened by a muffled crump, like a bomb explosion in the distance, followed by an extremely loud crack like a monster firework. The house shook and rolled and all the windows blew in, showering the house with glass. After the initial shock, they climbed out of bed and peered through the window which overlooked the factory next door. They found that most of it had disintegrated and that they could see right through the wrecked structure.

The sight that confronted them was most unusual. A thin pencil of light extended vertically from the floor level of the factory, where a hole was later found, to about roof-level. This beam of light was clearly defined without any fuzzy edges, and was of a brilliant colour. Both Mr and Mrs Knibbs had great difficulty describing the exact colour and both said it was like a flame of an acetylene welding torch, with brilliant red, orange and yellow all mixed up together.

As they watched, the beam slowly disappeared from roof level to the floor as if it were descending into the ground, and as it reached the floor a small dome of light or ball of fire formed and quickly spread. In less than a minute this section of the factory was ablaze. The reports have been condensed somewhat from the original accounts in my book, but the main interest in these two particular explosions at the time was that they had taken place on energy grid lines and that they were right on 288 seconds apart—this being twice the speed-of-light harmonic shown in other sections of this book. Not only that, the two explosions were equidistant from a secret American research base at Kauri Point on the north shore of Auckland city. The geometric pattern formed a perfect isosceles triangle. Other interesting geometric relationships were associated with this base and were pointed out at the time and shown on a map of Auckland. The one thing I did not check until years later was the time interval between the two explosions.

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Now that I have far more background knowledge to work with, I have been looking over previous research data and filling in gaps which were not obvious during my early attempts to find out what the scientists were up to. I suddenly had a hunch that the time factor should be considered on some of this activity and decided to check the



interval between the explosion in the city and the one at Rosebank Road. The results were quite startling.

The interval, surprisingly, came to 3472 days, which is the harmonic reciprocal of 288, the displacement of the two explosions (288 seconds of arc). The mathematical possibility of this occurring by chance is virtually nil. I believe that it is almost certain that the scientists were carrying out some sort of experiment in space-time which required a geometric pattern to be set up in the Auckland area. No one was injured, but the resulting damage proved it to be a very costly exercise.

Time difference between explosions	= 3472 days
Distance between explosion points	= 288 seconds of arc
Reciprocal of 288	= 0.003472 harmonic

It appears obvious that the explosions were not caused by accident. The distance between the two is the harmonic reciprocal of the time factor. The mathematical possibility of this occurring by chance is virtually nil.

The radius of action from Kauri Point Multiplied by 60 Divided by 2

Diameter of circle Circumference Multiplied by 60 x 60 x 60

Area of segment

Multiplied by 36 Multiplied by 2

Area of Earth cross-section Reciprocal harmonic

- = 231.48147 seconds
- = 13888.888
- = 6944.444 (speed-oflight reciprocal)
- = 462.96294 seconds
- = 1454.441 seconds
- = 31415927 harmonic of pi (3.1415927)
- = 37408.45932 square seconds
- = 1346704.534
- = 2693409.068 (Unified Equation harmonic)
- = 37127665 square mins
- 2693409 harmonic
 (Unified Equation)

Chapter Six

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HARMONIC TRANSMISSION AND RECEIVING

I have been aware for many years now that scientists have been carrying out gravitational and other types of electromagnetic research in a number of countries around the world. I realise, of course, that the knowledge that I have discovered to date regarding the unification of these forces is only a fraction of that held by the various scientific groups. I have had to put together all the material at hand, piece by piece, from the information gathered from the study of UFO activity, while they have had access to data that has been available from historical times and held to the present day by secret organisations.

Because of this awareness, I often carry out a computer check of positions where unusual activity has occurred or where technical activity is being carried out in unusual places. This has now become a routine exercise and I have found that there is a general pattern of harmonic associations to look for. The computer program compiled by Rod Maupin and I now makes the exercise much easier, and if the position under study falls on a harmonic site it usually shows up fairly quickly. The harmonic values can be processed in a similar way each time, and it is this repetition of method and the correlation with the established unified tables that indicates the probability that a comparatively small group of people are aware of a new and advanced technology.

I do not see this as any great problem as advanced research must be carried out to ensure scientific progress, but I believe that we have the right to know of the activity and also the right to have some say in how the knowledge is used.

One of the places of interest that caught my attention was a large communication station established on the north island of New Zealand.

At a given cost of NZ\$1.39 million, a signal intelligence high-fre-

quency direction-finding station was constructed on 25 hectares of land near a small west coast settlement called Tangimoana. Opened by the Prime Minister on 18th August 1982, it was said at the time that the station would significantly improve defence communications in New Zealand and that it also could be used for search and rescue purposes.

There is certainly nothing sinister about the complex and there is no question that installations such as this are necessary in case they are needed for the mutual defence of our country and that of our allies.

As a purely theoretical exercise, I decided to feed the position of the station into the computer to see what came up, and the first rough results I had were passed on to the appropriate authorities to see if they wished to make a comment. No particular interest was shown regarding my calculations at the time.

Since then I have made a more comprehensive check of the position using the grid computer program and have obtained quite a satisfactory series of unified harmonic values. This, no doubt, will be put down to chance but I found the exercise most interesting.

The theoretical position calculated by the computer which should give the best results for transmission, according to my present findings, is:

Latitude 40° 19' 07.878" south / Longitude 175° 14' 35.7" east.

The analysis of these values follows:



Latitude 40° 19' 07.878" south:

e

e

Each 90° sector is equal to 4117.259375 minutes of arc (nautical miles).

If we calculate the circumference at this parallel of latitude in minutes of arc relative to the equator, we have:

	16469.0375 minutes		
	(or nautical miles)		
Therefore, each sector of 90°	= 4117.259375 minutes of arc		
This value squared	= 16951824.76		
This value squared	$= 2.8736436^{14}$		
Divided by 2	= 1.436821849 ¹⁴		
Harmonically	= 143682.1849		
The speed of light geometric at	this latituda		

The speed of light, geometric, at this latitude.

If we now check the gravitational and light tables, we see that the value for the speed of light, geometric (actual), is also 143682.1849 (143682.2) for this latitude, which shows quite clearly that the given position and the theoretical tables match very accurately. The computer programs calculate these values for any latitude.

Furthermore, if we subtract the true speed-of-light value for that latitude from the speed of light, maximum, of 144000 minutes of arc per grid second, we can calculate the following:

144000.0000
- <u>143682.1849</u>
<u>317.8151</u>

If we now shift this value up the harmonic scale by the multiplication of 6:

317.8151 x 6 x 6 x 6 x 6	= 411888.3696
Squared	= 1.6965202"
Squared	$= 2.878181^{22}$
Divided by 2	$= 1.439090655^{22}$
Equivalent speed-of-light harmonic	= 143909.0655 minutes of arc per grid second

As shown in other sections of this book, if this value for the speed of light is used in Unified Equation 2, then:

	$E = (2c + \sqrt{(1/2c)})(2c)^2$ = (287818.131 + \sqrt{(1/287818.131)})(28781	8.131)²
Harmonics	= (287818131 + 186397860)(82839276) = 474215991 x 82839276 = 3928371 harmonic	•

This harmonic of 3928371 is directly associated with the Earth's magnetic field and is also the reciprocal of the value 2545.5844 minutes of arc built into the polar segments of the energy grid.



Longitude 175° 14' 35.7" east:

The harmonics connected with the longitudinal position of the aerial system can be calculated by checking the great-circle displacement within the associated 90-degree sector at latitude 40° 19' 07.878" south

The great-circle distance between 90° east and 175° 14' 35.7" east proved to be: 3730.122975 minutes of arc

If we shift this value down the harmonic scale by the division of 6, we have:

$3730.122975 \div 6 \div 6 \div 6 \div 6$	= 287181305 harmonic
Divided by 2	= 1439090655 harmonic

Equivalent speed-of-light harmonic = 143909.0655 minutes of arc per grid second

С

So we see that both the latitude and longitude positions have mathematical affiliations with this particular speed-of-light value.

A description of the circular aerial array of the direction-finding station was given in a magazine article I read some years ago. It is said that it consists of a ring of aluminium aerials 150 metres in diameter, with an outer circle of 48 poles, 12 metres high, and capable of monitoring the lower half of the high frequency band, 2 MHz to 15 MHz.

Diagram 12 - Showing the Ground Plan of the Transmitter-Receiver.



Concentrically within the larger circle is a 50-metre-diameter circle of 24 antennas, each 6 metres high, which would monitor the upper part of the high-frequency band up to 30 MHz.

If we alter these values fractionally to 150.0144817 metres and 50.00482722 metres respectively, then the following unified values can be derived:

Outer Circle:			
150.0144817 metres diameter	= 486.0172806 geo. feet		
The circumference	= 1526.868318 geo. feet		
Therefore, the outer circle would consist of	nine sectors, each		
	= 169.6520354 geo. feet		
The square of which	= 28781.8131 harmonic		
Divided by 2	= 14390.90655 harmonic		
The harmonic of 143909.0655 minutes of arc per grid second.			
Inner Circle:			
50.00482722 metres diameter	= 162.0057602 geo. feet		
50.00482722 metres diameter The circumference	= 162.0057602 geo. feet = 508.9561061 geo. feet		
	= 508.9561061 geo. feet		
The circumference	= 508.9561061 geo. feet		
The circumference	= 508.9561061 geo. feet three sectors, each		
The circumference Therefore, the inner circle would consist of	= 508.9561061 geo. feet three sectors, each = 169.6520354 geo. feet		

The harmonic of 143909.0655 minutes of arc per grid second.

Other harmonic values could be created by setting up different fractional changes in the diameters, but I believe that those indicated above would be the most effective.

The next step in the theoretical exercise was to see if the calculated position had any harmonic connections with the equivalent position on the world energy grid. This was a fairly simple calculation as the computer program quickly converts the normal latitude and longitude position into grid latitude and longitude for Grids "A" and "B".

The first check revealed that there was a very close correlation with Grid "B". The grid point fell within the circle of aerials and gave an excellent set of harmonic's. After a further series of calculations, the

closest position to the centre of the aerial circles was found to be: Latitude 40° 19' 07.4466" south / Longitude 175° 14' 37.73" east. This was equivalent to a Grid "B" position of: Grid latitude 37° 20' 56.8932" south / Grid longitude 70° 42' 38.44" west, or Latitude 37.349137° south / Longitude 70.710677867° west.

The harmonics of the latitude:

The circumference of the parallel of grid latitude, 37.349137 degrees, in minutes of arc relative to the grid equator, is:

17170.99538 minutes of arc or nautical miles The circumference of the grid equator:

21600 minutes of arc or nautical miles

The difference:	21600.00000
	- <u>17170.99538</u>
	4429.00462
17170.99538 - 4429.00462	= 12741.99076
12741.99076 ÷ 6 ÷ 6 ÷ 6	= 58.99069793
Reciprocal	= 0.016951825
Squared	= 2.8736437004
Divided by 2	$= 1.436821800^{-4}$
The harmonic	= 143682.18

It is evident that the grid latitude has a harmonic affinity with the actual speed-of-light factor 143682.18, shown to be related to the aerial position in the previous calculations.

The harmonics of the longitude:

The harmonic relationship of the grid longitude was quite easily calculated by moving the value up the scale by multiplication of the 6 increment:

70.710677867 x 6 x 6

= 2545.5844

Harmonics 2545.5844 and the reciprocal 3.928371⁴ were previously shown to be related to the Earth's magnetic field and the positioning of aerial-type objects around the north and south grid poles.

The Grid "B" position falls between the calculated positions of the inner and outer circles of the aerial array, which is almost a perfect match considering the fractional errors which must exist in the calculations. I was quite happy with the results.

Could it be that the theoretical exercise is showing positive answers? Other places have been checked and they also show similar results. Are they also mathematical accidents?

The Washington Link

The early 1980s saw great public concern in New Zealand about the proposed construction of an observatory not far from the small township of Blenheim on the south island. It would be what is termed a "transit circle observing station" that would be used to determine the positions and motions of the stars. It was said that the station would have direct links with the United States Naval Observatory in Washington, DC.

The main concern at the time was that the station would have links with the military and could be used for the accurate guidance of nuclear missiles. This did not go down well with the public as New Zealand had been declared a nuclear-free zone.

The debate went on for a number of years but eventually the station was built at Waihopai and has been in operation since 1989. The large satellite receiving dish is supposedly set up to monitor communications in the Pacific area for domestic reasons and trade security.

The public fuss died down and there was very little in the media about the station until November 1993 when an article appeared in the local papers. A Naval intelligence document had come to light which was said to have "great significance" in the debate over Waihopai and Tangimoana's signal intelligence activities. The claims that the Tangimoana communications station and the Waihopai satellite dish were built to collect military intelligence information for the United States appeared to be correct.

The document stated that the United States National Security Agency controlled all signal intelligence collected from the reporting sites and "second-party producers". The second parties are listed as the United Kingdom, Canada, Australia and New Zealand. The activity was said to be largely beyond government control.

More information can be gleaned from the media files for those inter-

ested, but my attention was focussed on the probability that there was some close connection between Tangimoana and Waihopai facilities besides the gathering of intelligence. Could there be a geometric linkup based on the unified values which have become apparent in my research? It was a simple operation to compute the distance, in minutes of arc, between the two stations and compare the results with the tables.

The approximate centre of the small parcel of land upon which the Waihopai satellite dish was constructed was given by the Department of Survey and Land Information as:

Latitude 41° 34' 42" south / Longitude 173° 44' 23" east.

The latitude value was of immediate interest. The actual speed or acceleration of light at that latitude according to the unified computer tables, is 143556.632 minutes of arc per grid second.

144000 - 143556.632	= 443.368
Multiplied by 6 harmonic 14 times	= 3.4744162 ¹³ harmonic
Multiplied by 2	= 6.948832513 ¹³ harmonic
Reciprocal	= 1.439090655 ⁻¹⁴ harmonic
The harmonic of 143909.0655 min magnetic).	utes of arc per grid second (electro-

The distance to the Tangimoana position calculated at: Latitude 40° 19' 07.878" south / Longitude 175° 14' 35.7" east. Was = 101.7472955587 minutes of arc = 1.695788259 degrees

Only a fractional correction of approximately 13.6 feet was necessary to give a harmonic value of:

	1.695825547 degrees	
Squared:	= 2.875824285 harmonic	
Divided by 2	= 1.437912142 harmonic	
The harmonic of 143791.214 minutes of arc per grid second. (See the gravity reciprocal value for electromagnetic transmission, Table 3.)		

Other harmonic values were also evident in the full geometric pattern between the two points. Extremely small errors were there but I consider the values to be too close to be chance. The communications systems were geometrically connected, possibly for some other scientific purpose yet to be discovered.

Chapter Seven

THE LINK BETWEEN HUMAN BRAINWAVES, THE CAVITY RESONANCE BETWEEN THE EARTH AND THE IONOSPHERE, AND GRAVITY

In my earlier works I have shown that the human body is linked harmonically to its natural environment due to its gestation period, blood heat, major acupuncture points and the geometrics of the DNA spiral. It seems that we are tuned in varying degrees—some more so than others—to our natural surroundings which affect our day-to-day wellbeing. Theoretically, those who have near-perfect harmonic resonance with all these factors would be the most healthy. All the cells in the body would be in almost perfect rhythm and function at peak efficiency. There would be a very small percentage of people in the world lucky enough to be in this group.

Unfortunately, the vast majority of us go through our lives accepting that we must contend with an average health record and varying degrees of success in our endeavours because of this. Some of the main causes for the breakdown in the cell structure of the human body in modern times would be the worldwide pollution of our environment and the background of natural and man-made radiation that we are forced to live in. Hopefully we will be able to eradicate some of these causes in the future.

Recently, some more facts have come to my attention which reinforce the theory that the human body has a natural affinity with particular Earth harmonic rhythms. The human brain functions within a distinct range of electromagnetic wave patterns. The general groupings ^{come} under the headings of Delta, Theta, Alpha and Beta. The frequency ranges are:

Delta:	0.02 - 3 hertz
Theta:	3 - 7 hertz
Alpha:	7 - 13.5 hertz
Beta:	13.5 - 27 hertz

During sleep or unconsciousness, the waves are in the Delta group. The dream state is said to be in the Theta group. When a person is awake and fully aware of his or her surroundings, the wave frequencies are found in the Beta range.

When the individual is in a wakeful state but completely relaxed, the brainwaves produced are in the Alpha group. It has been discovered that the majority of waves produced in this state are those of 10.6 Hz.

According to the unified theory, a more accurate value for the dominant transmission of 10.6 Hz would be 10.598084 Hz. Calculations indicate that the Alpha baseline frequency has a direct harmonic link with the gravitational values demonstrated in the unified tables. Considering the fact that the gravitational harmonics are the basis for the whole of our reality, it should not be surprising to find that the human mind has an affinity for this basic frequency.

The cavity resonance between the Earth's surface and the ionosphere which manifests in ELF (extra low frequency) wave-trains, can also be linked with human brain activity. The surface of the Earth and the ionosphere form a wave-guide which channels the ELF waves, produced by lightning strikes, in a circular path around the world. This is known as the "Schumann resonance". Dr W. O. Schumann was the first to carry out experiments in this area, and in collaboration with Dr H. Konig in Germany he developed the electronic equipment necessary for the verification of the phenomenon.

It was discovered that the average frequency range of the waves was 7 to 13.5 Hz. But the most startling fact was that the wave-trains that occurred most frequently were those of 10.6 Hz—the Alpha brainwave pattern produced most frequently by the relaxed human being. The Alpha brainwaves and ELF waves are so similar that it is sometimes hard to tell them apart during some experiments.

It seems that we are walking radio transmitters, tuned into our surrounding environment. Could this have some bearing on the psychic abilities of some individuals and the possibility of telepathic communication?

If, instead of 10.6 Hz, we assume the true value of 10.598084 Hz, then:		
(10.598084 x 8) ÷ 9	= 9.4205193 cycles per grid second	
9.4205193 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6	= 26371424 harmonic	
This value squared	= 69545205 harmonic	
Reciprocal	= 143791364 harmonic	
It will be seen that the harmonic val 143791.364, demonstrated in the unified tal		

This would also be a good place to point out that the Earth is said to have a natural frequency of 7.82 Hz. This has been published in many articles over the last few years but I have not seen any reference to this in any scientific journal. If any reader can find such a reference and send it on to me, I would be very grateful. I believe that the value would be very close to correct, because if we convert it into grid time we can get the following harmonics:

(7.8174366 x 8) ÷ 9	=	69488325 harmonic
The reciprocal	Ħ	143909.0655 harmonic
Grid speed of light, electromagnetic.		
$(7.8200534 \times 8) \div 9$	=	69511586 harmonic
Reciprocal	=	143860.909 harmonic
Grid speed of light, in air.		
(7,002025(- 0) + 0		(05450051
$(7.8238356 \times 8) \div 9$	=	69545205 harmonic
Reciprocal	=	143791.364 harmonic
Grid speed of light, gravitation.		

Until the true value is confirmed, I am not sure which of the above is correct.

Chapter Eight

EDGAR CAYCE: THE HARMONICS OF THE SUBCONSCIOUS

In the early 1980s I read several books about Mr Edgar Cayce, a psychic, sometimes called The Sleeping Prophet. He was born on 18th March 1877 on a farm at Beverly, close to Hopkinsville, Kentucky, and during his lifetime became known and revered by thousands of people. He displayed abnormal powers from the tender age of six and claimed he could see visions of people and sometimes departed relatives.

One of his remarkable accomplishments was being able to sleep with his head on his schoolbooks in order to learn his lessons.

At the age of 21 he developed a paralysis of the throat muscles which caused the loss of his voice. Doctors could not find a physical cause, and in frustration he asked a friend to put him into a hypnotic sleep so that he could analyse his own problem during the trance state. He recommended certain medicative and manipulative therapies which cured his throat problem and restored his voice to normal.

It was not long before he discovered that he could solve people's medical and other problems when in the trance state. When he died on 3rd January 1945 at Virginia Beach, Virginia, he left behind over 14,000 documented records, called readings, that he had carried out for over 8,000 people. These records are now preserved at The Edgar Cayce Foundation, located at 67th and Atlantic Avenue, Virginia Beach, Virginia, United States of America.

It is not my intention to write a comprehensive story about the life and accomplishments of Edgar Cayce as there are many other books and writings which tell of this in great detail.

What interested me was the birthplace of Mr Cayce and the geo-

graphic positions where he was able to carry out his trance readings with the most success and ease of mind. He did much of his work in the area of his birthplace, but when he moved around the countryside he seemed to encounter nothing but strife and disillusionment. All the plans he and others had in order to bring his gifts to the public seemed to end in disaster.

At one time, tentative plans were made by one group to build a hospital in Chicago. Another group chose a site within 100 miles of Dayton. Readings by Edgar vetoed these and other suggestions, and gave explicit instructions to build at Virginia Beach. It would be best here for his health and psychic abilities. Over and over the inner voices said, Virginia Beach, Virginia Beach.

During my earlier research I had discovered that the human body is harmonically tuned within a certain range to all the surrounding natural frequencies of light and gravity, etc., and there were indications that psychic and telepathic abilities can be enhanced in the few people who are most closely tuned to the basic harmonic values. Position could also play a part in this. For instance, the Russians have discovered that the number of major acupuncture points on the human body is 695 (speed of light reciprocal, gravity), and it appears that they position their psychics geometrically when they carry out experiments.

It is clear that Mr Cayce's psychic abilities were finely honed to the natural forces, but was his inner self trying to advise him to move to a geographic position that would lock him into almost perfect reception?

With this in mind, I contacted The Edgar Cayce Foundation and asked if they could provide me with information regarding the latitude and longitude of his birthplace and the research centre and hospital at Virginia Beach. I had already checked a number of other positions around the world where psychic-type healings had been carried out, and rough calculations indicated that location was a significant factor.

I received a very courteous and helpful reply from the Foundation and, several months later, a second letter which gave the positions requested. It was evidently a difficult task to pinpoint Mr Cayce's birthplace, as Beverly does not exist anymore on modern maps. Many letters had to be exchanged with people in the area before its exact location could be ascertained.

The positions given were: Latitude: Beverly: Virginia Beach:

36° 51' 00" north 36° 51' 00" north

Longitude:	Beverly:	87° 29' 00" east
	Virginia Beach:	75° 59' 00" west

This information was received some time ago, and the earlier publication I had intended was delayed until the present time because of the actions of others which caused the removal of my books from the market. Fortunately I am now back in business and the computer programs are now available to enable accurate calculations.

The first most interesting fact which was evident in the positions given by the Foundation was that the latitude values of Mr Cayce's birthplace and the eventual position he moved to at Virginia Beach were the same. This was most unusual.

The latitude of $36^{\circ} 51' 00''$, given to the nearest minute of arc, was fed into the computer, and a more accurate harmonic value of $36^{\circ} 50' 59.514396''$ or 36.84986512° was indicated—an error of around 50 feet.

When harmonically processed, this value could be associated with Unified Equation 3 if the speed of light value entered into the equation were 143,909.0655 minutes of arc per grid second. This value for light-speed was found to be associated with electromagnetic transmission.

The geometric distance to the north pole	= 53.150134 degrees
The geometric distance to the equator	= <u>36.849865</u> degrees
Difference	= <u>16.300269</u>
,	
Harmonically:	
16.30026	= 2.6957666 ⁻⁷
Harmonic 26957666	$= \sqrt{[(2c + \sqrt{1/2c})(2c)^2]}$
Where 'c'	= 143,909.0655 minutes of arc per grid second

The unified harmonic would apply to both Mr Cayce's birthplace and Virginia Beach. The longitude value for Beverly gave the pure light harmonic of 144000 with a plus or minus margin of about 400 feet. This was derived from the great-circle distance to zero longitude at the same latitude. It would be interesting to know just how close to Mr

Cayce's actual place of birth in the old community of Beverly the calculated position turned out to be.

The longitude position that would theoretically be the best place at Virginia Beach for harmonic reception was calculated to be: Longitude 75° 59' 27.96" west, or 75.9911 degrees.

This gave a great-circle distance to zero longitude, at the same latitude, of:

	3541.4672 minutes of arc	
	= 59.0244533 degrees	
Processed harmonically	= 59.0244533	
Reciprocal	= 0.01694213 harmonic	
Squared	= 2.8703579 ⁴ harmonic	
Divided by 2	= 1.4351789 ⁻⁴ harmonic	
This is the harmonic of 143517.89 minutes of arc per grid second		

This was a great result because when the actual speed of light, equivalent to the gravity reciprocal, for the latitude of 36.84986512 degrees was checked on the computer using the Cathie/Maupin program, the value indicated was 143517.89 minutes of arc per grid second—a very accurate harmonic match.

All the parameters within a very small radius of error appear to show that Mr Cayce was born on, and urged by strong psychic suggestions to go to, a well-defined harmonic geometric position which enhanced his strange abilities.

The geometric position of the birthplace of an individual does seem to have a definite effect on the possible psychic abilities of the person. Also, geometric positioning in other areas on the Earth's surface appears to enhance this ability during psychic experiences. It would be interesting to check the birthplaces and operating areas of other wellknown psychics in order to ascertain whether this is common to all.

Chapter Nine

POSSIBLE POSITION FOR HARMONIC EXPERIMENT

Every now and then a geometric position becomes evident that could possibly be used for experimentation based on the theoretical harmonic unified tables demonstrated in this book.

The following position came to my attention several weeks ago. At this time it is a piece of barren land, but maybe in the future someone will realise its significance. The harmonics involved at the geometric point are quite interesting.

Position:

Latitude 36° 55' 46.399116" south / Longitude 174° 49' 33.66354" east Latitude 36.92955531° south / Longitude 174.8260176° east

Harmonics:

The actual speed of light or electromagnetic speed of propagation at this latitude is 143517.1373 minutes of arc per grid second, as ascertained from the unified tables. If we subtract this value from the maximum speed of light of 144000 minutes of arc per grid second, we have:

	144000.0000
	- <u>143517.1373</u>
Difference	482.8627
The square root of harmonic 4828.627	= 69.48832276
The reciprocal	= 0.01439090655
The harmonic of	143909.0655
(See tables.)	

Chapter Ten

MORE HARMONICS OF STONEHENGE

In my last book, *The Bridge to Infinity*, I asked the question, "Who built Stonehenge and why did they build it?" What is the true purpose of this geometric pattern of gigantic stones, said to be at least thirty-five centuries old, standing like ghostly sentinels on the Salisbury Plain in the southern part of England? As the centuries have gone by, many different investigators have tried their luck at deciphering the mystery of the complex, and to date I consider that none of them have come close to the truth. So far the reasons given for the construction are far too mundane to explain the immense effort and meticulous planning necessary to erect the stones with such precision.

In my second book, *Harmonic 695*, I suggested the probability that Stonehenge could have been designed as a gigantic crystal set—a massive geometric device constructed in ancient times to serve as a transmitter and receiver of signals from the heavens. This conclusion was reached because many of the known measurements were very close to those found in my own research. Also, a peculiar fogging effect was evident on many photographs taken of the stones, which indicated that some sort of radiation was emanating from them.

I spent many months carrying out a calculator analysis of the geometric pattern according to the harmonic mathematical values I had discovered up to that time. I believe that this demonstrated without much doubt that the stone complex was constructed to the unified harmonics associated with the equations discovered in my research.

Now, several years later, I have the recently completed unified tables to use in order to carry out a more comprehensive survey. This now allows a more accurate analysis of the Stonehenge geometric patterns which will correct the small errors in some of the calculations. The overall conclusions will not be altered significantly by this, but will strengthen the theoretical argument that extremely advanced knowledge was made use of in the construction.

I have already carried out some initial calculations on the computer using the special grid programs, and found very accurate associations with the unified tables which comply very closely with the published government survey carried out in normal English measurements. It is my intention to publish the latest results in a separate pamphlet on Stonehenge at a later date.

At this stage I will demonstrate how Stonehenge has been placed on a geometric position which gives a very accurate correlation with the unified tables. This information was not included in the previous analysis.

The most reliable information to date on the latitude and longitude position of Stonehenge is:

Latitude 51° 10' 40.54" north / Longitude 01° 49' 29.032" west.

The great-circle distance from longitude zero to longitude 01° 49' 29.032" west, at latitude 51° 10' 40.54" north was found to be 4118.041289 seconds of arc (plus or minus about seven inches).

If this value is processed harmonically, we have:

	4118.041289
Squared	= 16958264.05
Squared	$= 2.8758271^{14}$
Divided by 2	$= 1.4379136^{14}$

The final value is a harmonic of 143791.36 minutes of arc per grid second. This is the reciprocal of gravity in the unified tables—in other words, the speed of light which is the reciprocal of gravity.

This single coordinate indicates without doubt that the stone complex was constructed on a position which harmonises with the gravitational forces of the unified fields of the Earth. How could this possibly be so, unless the construction and positioning were carried out with the help of extremely advanced mathematical and technical knowledge at the time? We are just rediscovering this knowledge which was known to our ancestors.


Chapter Eleven

THE HARMONICS OF RENNES-LE-CHATEAU

In the early 1980s I read a book called *The Holy Blood and The Holy Grail* (written by a British author, Henry Lincoln, with co-authors Richard Leigh and Michael Baigent), and found it extremely interesting. It was suggested that Jesus survived the cross and married Mary Magdalene. They had children and eventually moved to France. The union was said to have formed the foundation of the Merovingian dynasty of Jewish kings. The weaving of historical events by the authors produced a convincing hypothesis but no definite evidence was shown to indicate that any particular area or ancient site had any direct connection with Jesus.

The main centre of interest appeared to be a small village, perched on the top of a hill in the south of France, called Rennes-le-Château: Latitude 42° 55' 44.78" north / Longitude 02° 15' 49.306" east.

Once called Rhedae, a city of 30,000 people, it is now nothing more than a hamlet of roughly 200 residents.

The mystery began in 1885 when a young priest, Berenger Saunière, was sent to the Château to take up a position at the 800-year-old local church. The building had been badly neglected over the years and needed some costly restoration. The priest managed to obtain a small loan in 1891, and initial work began on improving the interior of the structure. As the work progressed, a hollow stone was discovered in the base of the altar and inside were found genealogical charts, documents and a number of Latin texts.

Saunière informed the Bishop of Carcassone of the discovery and was then sent to Paris where he was advised to contact a certain list of people who, it is said, had associations with a number of occult societies. The reason for the visit is not known but, on his return to the Château, Saunière appeared to become extremely wealthy. He began to spend large amounts of money on the restoration of the church and generally live a life of opulence.

The book, *The Holy Blood and The Holy Grail*, goes into great detail regarding the history of the Château environs and points out that the Knights Templar had very strong associations with the area. The authors speculate that a vast treasure trove could be buried in the hills surrounding the Château, including the legendary treasure of Solomon's Temple in Jerusalem and possibly the Holy Grail itself.

It was obvious from their extensive research that Saunière had found something extremely important. He undoubtedly discovered some sort of treasure, but at the same time he also discovered a secret of immense importance. The Church showed great interest in the discovery. It is said that Saunière defied his Bishop with impunity on many occasions but was subsequently exonerated by the Vatican. The priest's secret appeared to be "more of a religious nature than political", according to Henry Lincoln.

All in all it was a great story, and I decided that at some future time I, myself, would carry out some research on the area when I had completed my own projects—then completely forgot about it.

That is, until a few years ago when out of the blue a book arrived in the post from a Mr David Wood of England. Called *Genisis*, the book was an extremely up-market production which covered, amongst other interesting information, a comprehensive ground survey of a large area surrounding Rennes-le-Château.

Mr Wood is a qualified surveyor and cartographer and owned a small reprographic company which placed him in the invaluable position of being able to reproduce accurate maps to scales suitable for investigation.

He reasoned that, "an intelligent early civilisation would leave signs, or markers, of a far more permanent nature than the written or spoken word... One thing which would meet these requirements would be sacred geometry."

"Much of the history of the Church of Rome is concerned with religious persecution... I was intrigued by what it could be which was so important that it warranted such intense suppression. I began to wonder whether the valley may contain something which in the opinion of Rome we were not meant to find. Could it be, as was also implied, that the valley held a much greater secret than treasure, buried or otherwise?... For centuries, Rome considered the pursuit of scientific knowledge to be evil, and I wondered if the valley held something of this nature. Alternately, could it be historical or religious knowledge potentially damaging to the infrastructure of the Roman Catholic Church?"

Thus David Wood set out on an intensive geometric analysis of the area surrounding Rennes-le-Château:

"The result of this work was initially the recognition and identification of an immense geometrical figure, indelibly marked on the ground, which I have called The Temple of Rennes. It is designed in a manner so perfect and so logical that it is undeniable; a deliberate and verifiable construction, so brilliant and on such vast scale that it staggers the imagination... It covers an area of 40 square miles and every part is marked by a mountain top, a church, an outstanding rock feature, or some intersection of carefully designed geometry. It is the largest such Temple ever discovered. It incorporates such detail as to obviate totally any possibility of the design being coincidence."

During the course of Mr Wood's investigation, he found that some of the geometric and mathematical values came very close to those that I had published in my earlier works. It was this that encouraged him to send a copy of his book to me for comment.

I was obviously very interested in the information, and on receiving the book I telephoned him in England in order to discuss his work and the possible link between his findings and my own. At the time I was not sure whether the connection was valid as his values were in English miles, and mine in nautical miles or minutes of arc measured on the Earth's surface. I suggested that he convert his measurements into geometric equivalents the same as mine, and recheck the data. I did not realise at the time that there was a definite mathematical link between British and geometric measure. The mile, foot, inch, etc., do not appear to be arbitrary lengths.

After this initial discussion with Mr Wood, I again put the problem aside as I did not have the facilities to carry out a full-scale investigation and my own work was taking up the majority of my time.

It was not until I had contact with Rod Maupin and we began to develop the computer program which enabled the calculation of great circles, etc., that I again became very interested in the Rennes-le-Château area. I now had a means to calculate very accurate distances between points on the Earth's surface (Rod's program calculates to an accuracy of fifteen decimal places), so I contacted Mr Wood once more and asked him if he could possibly supply me with survey maps of the

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Château area and latitude and longitude positions of the sites of interest. He was extremely cooperative and, soon after, the required material arrived in the post: large-scale survey maps and a list of latitudes and longitudes (see below).

Coordinates of major positions in the Rennes-le-Château diagram:

Position	Latitude North	Longitude East of Greenwich
Centre of circle of		
churches	42° 54' 25.0"	2° 18' 43.2"
South seed	42° 54' 43.4"	2° 18' 39.3"
Rennes-les-Bains	42° 55' 10.3"	2° 19' 14.7"
North seed	42° 56' 50.1"	2° 18' 42.6"
North pentagonal apex	42° 58' 32.5"	2° 18' 46.0"
Rennes-le-Château:		
Tour Magdala	42° 55' 43.3"	2° 15' 46.4"
Church	42° 55' 44.8"	2° 15' 49.2"
Pech Cardou	42° 56' 14.2"	2° 19' 41.9"
Château d'Arques	42° 57' 15.0"	2° 22' 06.0"
Toustounes (head rock)	42° 56' 22.5"	2° 20' 56.4"
Bugarach	42° 52' 36.0"	2° 21' 09.5"
St Just	42° 52' 48.9"	2° 16' 04.7"

These were the main positions I fed onto the computer, but as the work progressed I plotted very accurate positions of a further 12 sites to extend the analysis. Before commencing the analysis I carried out a series of calculations in order to see if a correlation between British and geometric measure did, in fact, exist. Mr Wood had discovered that he could use measurements of one-mile units between points on the survey maps, and they appeared to fit perfectly with the geometric layout of the churches and other positions of interest.

It did not take me much time to discover that British and geometric measures are interlinked. The secret is hidden in the relationship between the radius and circumference of a circle. (See Diagram 14.)



If we now treat the circumference harmonically by the use of the six increment, then:

Circumference 16.38012759 x 6	= 98.28076554
98.28076554 x 6	= 589.6845932
Reciprocal	$= 1.6958218^{-3}$
Squared	$= 2.8758116^{-6}$
Divided by 2	$= 1.4379058^{-6}$
	= 143791.36 harmonic

The fractional error of the harmonic would be due to the conversion values. An exact conversion would be 2.9999918 miles—a conversion error of 0.5144832 of an inch. If we ignore the fractional error of conversion it can be seen without much doubt that British measure has a definite relationship with the geometric reciprocal of gravity acceleration. The geometric harmonic of gravity acceleration is 69545205 in the unified tables. (See Table 2.) The three-mile radius of the circle can be converted into a harmonic of 143791.36 minutes of arc per grid second—the speed of light for the gravity reciprocal. (Recent research indicates that the 'speed of light' is in fact an acceleration, but this is dealt with in other sections of the book.)

The next step was to study Mr Wood's initial plot of the area and see if I could get a correlation of his measurements on the computer. He stated in his book that the distance between the sister churches of Rennes-le-Château and Rennes-les-Bains was exactly three miles. I did not doubt that his measurements on the survey map indicated this.

I fed the latitude and longitude positions of the two churches supplied by Mr Wood into the computer and in a minute or so I had an answer. The distance given was slightly smaller than that given by Mr

or

Wood's analysis.The computer read-out gave a value of:
2.573040268 minutes (nautical miles)or2.960945579 British milesThis is an error of 206.20735 feet.

This would be an easy mistake to make because no matter how accurately a survey map is produced, it is very difficult to measure exact distances across it because of inherent errors in transferring the curved surface of the Earth onto a flat plane. I had been caught in this trap myself when I had only a map reference for other parts of the world.

However, I was in agreement with Mr Wood regarding the link because of my own mathematical findings. There was a correlation between British and geometric measure, but was it built into the geometry of the area?

I next tried the computer distance between Rennes-les-Bains and the library (Tour Magdala), built by Saunière a short distance from the church. This proved to be:

> 2.600966464 minutes of arc (nautical miles) 2.993081861 miles

This was closer, but again gave an error-36.52778 British feet.

If there was a direct correlation built into the pattern, then there must be another point just to the west of the library building. The clue to this further point was to be found in a later book by Henry Lincoln, called *The Holy Place*.

Mr Lincoln states in his book that Saunière built his Tour Magdala as far to the west as was possible within the confines of his hilltop village —perched, in fact, on and well nigh over the sheer drop of the escarpment. Saunière apparently had plans for another, much more grandiose tower. Just before his death in 1917, he signed a contract for the work.

The new library was to be about 60 metres high. Mr Lincoln calculates a position for the tower site using a six-mile distance from Arques Church and finds that it fell on the hillside below the Tour Magdala. Lincoln surmises, "Could this have been Saunière's intention to complete the alignment?"

Would this also allow for the missing 36-odd feet indicated on my computer? We may never know but it is certainly possible that the correlation of measurements could have been built into the geometric layout had Saunière completed his project.

Diagram 15

The first lines, plotted by Mr David Wood, which established the centres for the two circles.



"C" and "E": Centres for the two circles

An interesting fact here was that the Tour Magdala was, according t_0 the computer and site positions supplied by Mr Wood, 2.5455844 sec. onds of arc from the church—plus or minus about half a geodetic foot. (See the polar sections of the grid and the Earth's magnetic field for this harmonic value.)

The first major geometric line that Mr Wood had discovered lay between Rennes-le-Château and Arques, a few miles to the east. He stated in his book that "a well-known phenomenon of the area is when standing at the church the Sun rises over Blanchefort on 22nd July feast day of Santamaria Magdala, to whom the church is dedicated." He drew a line representing the sunrise from the church to Château Blanchefort and, to his amazement, the continuation of it passed through the Church of Arques. He measured the line between Rennesle-Château and Arques and found it to be six miles according to the scale he was using.

I fed these two positions into the computer and again I received a result that was contrary to that of Mr Wood. The great-circle distance proved to be:

or

4.83681920169 minutes (nautical miles) 5.566006337 British miles

This is obviously considerably shorter than that plotted. I decided that the best way to analyse the full geometric pattern would be to carry out the rest of the calculations in minute-of-arc or nautical-mile values and see what would eventuate.

David Wood was the first to carry out an accurate survey of the area, and his expertise and intuition had cracked the code of the sacred geometry. Without his work, the rest would not follow, but my own research is based on pure geometric measure and this basis was essential in order to discover if the unfolding patterns had any correlation with the unified tables I had now produced after years of research. The British mile could well be incorporated in the overall design but at this stage I will leave it to others to follow this approach. It has been proved by the mathematical conversion demonstrated that the link exists between the British mile and one minute of arc, which in itself is a very interesting fact.

The distance between Rennes-le-Château and Arques of 4.83681920169 minutes was extremely close to 4.836535538—a difference of 1.7 geodetic feet. If we shift the decimal place harmonically and take the square root, we have 69545205 harmonic, which is the gravitational factor in the tables and the reciprocal of 143791.36 (har-



monic of light). Things were starting to look very interesting.

Mr Wood had found that the pattern established two specific points from which two interlocking circles could be scribed. (See Diagram 15.)

The first circle to study was centred on the church at Rennes-les-Bains, the circumference of which passed through the church at Rennes-le-Château.

I had already established on the computer that the radius was:

2.5730402681 minutes of arc (nautical miles)

But a fractional correction of 2.545705 geodetic inches gave the following value:

2.573004911 minutes of arc (nautical miles)

The circumference of the circle was then found to be:

16.166666666 minutes of arc (nautical miles) relative

Which, when divided by 60, converts to:

0.269444444 degrees (relative)

This was an amazing result because the 269444444 harmonic is derived from Unified Equation 3 if the maximum speed of light,

144000 minutes of arc per grid second, is reduced by the harmonic of the constant mathematical value, phi, or \emptyset , 1618.034—the Golden Section.

Maximum speed of light harmonic: 144000

- 161.8034

143838.1966 (reduced light speed)

Substituting in Unified Equation 3:

$$E = \sqrt{[(2c + \sqrt{1/2c})(2c)^2]}$$

= $\sqrt{[(287676.3932 + \sqrt{1/287676.3932}) \times (287676.3932)^2]}$
= $\sqrt{[(2876763932 + 5895869800) \times (82757707)]}$ harmonics
= $\sqrt{(8772633732 \times 82757707)}$
= $\sqrt{72600305}$
E = **269444444** harmonic

The second point established by Mr Wood was just to the south-west of Rennes-les-Bain, and using this as a centre he found that he could scribe a circle, the circumference of which passed through the church at Rennes-le-Château and also, much to his surprise, through several other churches at various points around the circumference. It was becoming very apparent that there was a definite geometric order in the layout of the religious centres, which at first sight appeared to be scattered randomly around the countryside.

The initial survey work by David Wood, and more recent investigations by Henry Lincoln described in his latest book, *The Holy Place*, have proved beyond doubt that a vast and complex geometric puzzle has been laid out in the area in order to conserve some sort of advanced knowledge.

My next step was to enter the latitude and longitude of the second point and Rennes-le-Château into the computer and find the distance between the two, which created the radius for the second circle.

The computed value:

2.50377007181 minutes of arc (nautical miles)

A very slight correction of 0.856146 geodetic feet or 10.27375 geodetic inches, and another set of quite startling harmonic values became evident:

Corrected radius	= 2.50362738 minutes
Divided by 36	= 0.069545205 (gravity harmonic)
Reciprocal	= 14.379136
Harmonic	= 143791.36 (gravity reciprocal, light)

Once again, the gravitational acceleration factor was evident in the pattern.

Attention was then given to the circumference of the circle which passed through all the church centres, which proved to be:

15.73075477 minutes of arc (relative)

At first there did not appear to be any harmonic significance to this value but then I decided to find the difference in the circumference of the two circles and obtained the following results:

Circle 1	= 16.166666666 minutes (nautical miles)
Circle 2	= 15.73075477 minutes (nautical miles)
Difference	= 00.43591189 minutes (nautical miles)
Divided by 6	= 00.072651981
Square root	= 0.26954

Another pleasant surprise. The 26954 harmonic is that which is derived from Unified Equation 3 if the speed-of-light factor for vacuum, 143891.36, is entered into the equation.

The next check was the distance between the two centres, (C) and (E). (See Diagram 15.) A quick computer calculation provided a value of:

0.84727040166 minutes of arc (nautical miles)

A fractional correction of 5.024 geodetic inches was all that was required to create further harmonics:

 $0.847200621 \times 2 = 1.694401242$ harmonic The 1694401242 harmonic is one that links the magnetic fields with light and gravity.

This particular value can also be derived by the following formula:

 $(\phi \times \pi)/3$ = 1694401242 harmonic, or (1618.034 x 3.1415927) ÷ 3 = 1694.401242 harmonic

The results so far were so accurate, with only fractional corrections necessary to be made to the computer calculations, that it came as no

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surprise that many of the other couplings of geometric points and distances resulted in harmonic geometric values associated with the unified tables and equations published in my earlier works. The patterns laid out on the ground appeared to be a practical demonstration, in mathematical terms, of the unified nature of the Universe.

The mathematical knowledge inherent in the network is so complex that it would take a full book to explain it all, so I decided to concentrate on the two circles constructed on Rennes-les-Bains and Rennesle-Château and try to find what knowledge was hidden there which could possibly be related to Jesus—and, if so, why the Church was reluctant for the knowledge to be generally known. With this in mind, I tried various mathematical projections on the computer and studied the results.

I eventually discovered that if I projected a great-circle track from Rennes-le-Château that passed through Rennes-les-Bains, and extended it to the east, it ran right through the small township of Bethlehem— Jesus' birthplace. I was sure this must be the connection. There were secrets to be discovered in the relationship.

I now had a geometric puzzle before me: Rennes-le-Château, Rennes-les-Bains, two circles, and Bethlehem. It took me six weeks and a pile of computer paper to figure it out. The first point to tackle was Bethlehem itself. The computer had shown that the positions in the Château area all had harmonic links with each other, so in theory Bethlehem should be a harmonic point and the track angles and distances joining it with those in France should also be harmonic.

According to my *Times Atlas Index*, the latitude and longitude of Bethlehem are:

Latitude 31° 42' 00" north / Longitude 35° 12' 00" east.

I fed these positions into the computer as a starting point, and values very close to those previously discovered became apparent. Over the next couple of days, with the help of Rod Maupin's special program I fractionally altered the position until a clear set of harmonics became evident.

The computer indicated a point within the township 2,682 geodetic feet to the south-west of the *Times Index* position at:

Latitude 31° 41' 33.6" north / Longitude 35° 11' 54.44" east.

The unified computer tables will demonstrate that the actual 'speed of light' value changes according to latitude, although we always read a constant value due to relativity.

When I checked the calculated latitude at Bethlehem in the computer to ascertain the actual speed-of-light value at this level, I obtained the following, again astonishing result:

Speed of light, maximum, for gravity: 143,791.36 (±1).

The value for the latitude was right on the harmonic of the gravitational acceleration reciprocal shown in the unified tables. There must be more, I thought. Something completely unexpected was unfolding here. The hunch that something would be found in the Bethlehem area was strong but I did not believe the mathematical evidence would be so direct.

Next was the computer conversion of the normal Earth graticule latitude and longitude values into the equivalent positions of Grid A and Grid B latitude and longitudes. The results:

Grid A: Latitude 20.65509079° north / Longitude 132.0065841° east Grid B: Latitude 22.54629627° north / Longitude 143.8609090° east.

Grid B held the secret. The longitude value of 143.860909 was instantly recognisable as a perfect harmonic of the speed of light in air at 143,860.909 minutes of arc per grid second, in the unified tables.

But what of the latitude of 22.546296277°? The answer lay in the difference of the displacements between the equator and the north pole of the grid:

90.00 - 22.546296277	=	67.45370373
67.45370373 - 22.546296277	=	44.90740746
44.90740746 x 6	=	269.44444 harmonic

Here again was a mathematical relationship with Unified Equation 3: the 26944444 harmonic.

I believe there is something extremely profound here, but I do not think it is my place to speculate. I will leave this to others and get on with the job of solving the geometric puzzle relating to this point and Rennes-le-Château.

The track and distance between Rennes-le-Château, Rennes-les-Bains and Bethlehem was the next step in the analysis, and this turned out to be a real headache. The computer indicated very close harmonic values:

Bethlehem - Rennes-les-Bains: 1693.7587 minutes of arc

Bethlehem - Rennes-le-Château: 1696.3316 minutes of arc

Very close, but not good enough. I was not satisfied with these results. They did not give me an accurate tie-up with other known val-

ues which should be present if the computer positions were correct. It took me several weeks to find an answer. I finally came to the conclusion that there was a bit missing. The value of 1696.3316 (Bethlehem to Rennes-le-Château) was not far off 1697.056274, which is the square root of the harmonic of twice the speed of light, maximum, 288000. If I extended the track to the west to allow for this, I wondered what the value of the missing portion would be.

A quick calculation and fractional correction gave an answer of: 0.726003 minutes of arc

Square root of 7.26003 harmonic = 26944444 harmonic

Again we have an answer derived from the Unified Equation 3 when the maximum speed of light is reduced by the 1618.034, or ø harmonic.

The calculated point west of Rennes-le-Château proved to be:

Latitude 42° 55' 54.133" north / Longitude 02° 14' 51.2" east The track angle from the Château:

282.400207 degrees = 16944.01241 mins of arc = $(\emptyset \times \pi)/3$ I also found that the calculated point was 3.299077382 from Rennesles-Bains. Harmonically:

 $3.299077382 \div 6 \div 6 \div 6 \div 6 = 2.5455844^{-3}$

(See grid harmonics, the Earth's magnetic field.)

The mathematical evidence gives a very strong indication to me that the position to the west is a valid point and that some evidence could be found there, either on the surface or underground, which could be of some significance. Could this be the position that has the direct geometric association with the birth of Jesus? Harmonics of light and gravity are the connecting links.

There is much further investigation yet to be done, and my mathematical probe into the mystery will be added to the growing pile of speculations published by other researchers. My computer has told me more things about this area than I have demonstrated, but I did not wish to confuse the issue with too much detail.

Other investigators can flesh out the bones of the geometric patterns presented here for independent analysis. If there are errors in my work, then they will be found and corrected.

Chapter Twelve

THE HARMONICS OF A METEOR CRATER

The most well-known so-called meteor crater in the world is the one in the State of Arizona, United States of America. Many attempts have been made to ascertain the age of the crater and the various publications that I have read give values of 2,000, 3,000, 22,000, 25,000 and 50,000 years old. It is obvious from this that everybody is guessing and that much more data will be necessary before the true age can be accurately assessed.

The diameter of the basin-shaped crater is given as 1,265 metres and the depth 175 metres, and it is situated between Winslow and Flagstaff townships on a large flat plateau. The walls of the crater rise from 37 metres to 50 metres above the surrounding plain.

In 1905, attempts were made to find fragments of any meteorite mass that may be buried deep below the centre of the crater, and bore-holes and shafts were sunk to a depth of 607 feet where undisturbed layers were found. No material was discovered. In 1920 another search was made in the area of the southern rim, again without success. There was a considerable amount of what was thought to be meteoric iron found on the surrounding plain and because of this the scientists have concluded that the crater was definitely formed by a meteor which was almost completely vaporised at the instant of impact. Regardless of this general view, many scientists believe it to be of volcanic origin.

Because of the perfect bowl-shape I found it hard to believe either of these explanations. It is thought that a meteor came in at a very low angle and blasted out this gigantic crater, but I cannot see how a perfectly round hole could be formed under these circumstances.

If it is volcanic in origin, where is the evidence of this in the underlying strata? Or why are there no traces of volcanic lava? Nothing but a few traces of iron scattered around the plain. I had a feeling that there must be some other explanation and wondered if a check of the ge_{0-} metric position would show evidence of other forces which could have caused the cataclysmic explosion.

My Times Index gave a position of:

Latitude 35° 01' 00" north / Longitude 111° 03' 00" west.

A quick calculation on the computer indicated that a very slight adjustment to the latitude and longitude values would give the following harmonic results:

Latitude 35° 00' 55.357" north / Longitude 111° 02' 58.7616" west

54.98462304°
0.25455844 harmonic

As will be seen in other sections of this book, the 25455844 harmonic is built into the polar segments of the grid system and is the reciprocal of harmonic 3928371, the difference between the two Earth magnetic fields.

Next, the longitude: 111° 02' 58.7616" we	st	
111.04965601° - 90°	=	21.04965601
21.04965601 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6	=	5892556.5
Reciprocal of 5892556.5	=	1.6970562-7
This value squared	=	2.88-14
Harmonic	=	2c maximum

The explosion, whatever the cause, appears to have occurred on a very precise position on the Earth's surface. I believe that this would rule out the theory that a meteorite was the cause.

The geometry of the position could indicate possible volcanic origin, but lack of other evidence of this type of geological disturbance would also make this theory fairly remote.

What then are we left with? Unnatural causes? Could it be that some time in the remote past, somebody or something carried out an experiment that got out of control?

Chapter Thirteen

THE HARMONICS OF THE MOON

Approximately 20 years ago I spent an evening going through some back copies of *Scientific American* magazine and came across a twopage spread of a photo of a large Moon crater. It is so long ago now that I forget the date of the magazine issue and the name of the crater, but the photograph was so clear it caught my attention and I decided to have a closer look at it. I placed the photo on the floor under a strong clear light and studied it for about half an hour through a powerful magnifying glass. Gradually I became aware of a number of unusual features that defied explanation. I became quite excited and called out to my wife to come and have a look.

I made no comment about what I had seen through the glass and left her to quietly study the crater for the next 20 minutes or so. Suddenly she too became quite excited and exclaimed, "There are buildings of some sort in there and, look, there appears to be a road going out over the lip of the crater!"

Her observation was almost identical to mine. I had spotted what appeared to be a cluster of buildings in the centre of the crater floor and lines running from them that could have been roads. One of them extended across the crater and up the sloping wall, then through what appeared to be a cutting, to emerge outside the crater into the surrounding terrain. If what we were seeing was not an illusion, the Moon was obviously occupied by intelligent beings who were actively engaged in some project. The question was, were they aliens, or our own people who had reached the Moon without our knowledge?

A few weeks later we had several people around to our home for discussions about the work I was doing, and the photo of the crater was amongst a lot of other material scattered around the living-room floor. Some of the guests had examined the photo and came to the same conclusions as my wife and I had. The next day when I was tidying up all my research material, I found that the magazine with the photo w_{as} missing. Almost certainly, one of the guests had walked off with it the night before. As I had not taken a record of the names and addresses of the visitors, I was unable to track it down and have not seen it since. From that time I have made a point of checking on strangers who wish to visit me and discuss my findings. If any readers are aware of this particular photo, I would much appreciate another copy.

Since then I have been extremely interested in all the information available relating to the Moon and constantly look for more evidence t_0 confirm that it is inhabited.

I could never understand why NASA went to all the trouble and expense to send our astronauts to the Moon, then suddenly scrap the project and wind down the whole space program. Did they, too, discover that the Moon was already occupied and that the technology behind the rocket program was out of date? I believe that this could well have been so. The evidence I now have shows that the secrets of gravitational energy and travel in space-time have been available to a small group of our own Earth scientists for many years. Secret groups have had access to this knowledge from historical times, and our present-day technology is now enabling them to use it.

Apart from the information leaking out over the years regarding strange activity on the Moon's surface, the satellite itself raises many questions regarding the fact that it exists in its orbit around the Earth at all. None of the astronomy books I have read has satisfactorily answered the question of the Moon's existence.

The possibility that the Moon broke off from the Earth while it was still fluid, as a result of solar gravitational forces, has been discounted because of the analysis of lunar rocks brought back during the space program. The chemical differences between the Earth and the Moon are too great to support this.

The theory that the Moon wandered into the solar system from outer space and was captured by the gravitational field of the Earth has also been discounted because of the Moon's almost circular orbit. If the Moon had been captured in this manner then the orbit, in theory, would be elliptical. The possibilities of a near circular orbit are too remote even to be considered.

The possibility that a double planetary system was formed by accretion from the same ring of dust has also been considered but so far there is no evidence to back it up. The Moon has many strange attributes which makes it unique in the $_{so}$ lar system. It is roughly 400 times smaller than the Sun, but it is also 400 times closer. Because of this, the Moon covers the disc of the Sun perfectly during an eclipse.

According to the physics books, the acceleration of the Moon towards the Earth = 0.0089 feet per second squared Divided by 6076 (6,076 feet equals one minute of arc on the Earth's surface) = 1.4647794^{-6} minutes of arc per second squared Multiplied by 60 = 8.7886767^{-5} seconds of arc per second squared Divided by 9 and multiplied by 8 twice, to convert to grid time

= 6.9441396^3 seconds of arc per grid second squared From this it appears that the acceleration of the Moon towards the Earth has an affinity with the harmonic of the speed-of-light reciprocal, maximum, 6944444:

This would be consistent with the geometric unified theory because the speed-of-light harmonic reciprocal is created by the gravity harmonic. The calculated value would vary fractionally if perfect conversion factors could be obtained. At this stage we can only rely on average values.

The gravitational association in the Earth-Moon relationship suggests that some of the other geometric values connecting the two bodies could have a harmonic basis. I spent the next few days searching through the astronomy books and found several geometric measurements which backed up the harmonic theory.

What I found was that the Moon does not actually revolve around the Earth as it would first appear. What in fact occurs is that the two bodies mutually revolve around their centre of mass. This point is called the barycentre. One complete revolution occurs during one sidereal month. Calculation by modern instruments shows that the mean distance of the barycentre from the centre of the Earth is 4,672 kilometres Therefore, the point of revolution is approximately 1,694.58 kilometres below the Earth's surface.

In order to check the possible harmonic relationship of these values, it is necessary to convert them into minute-of-arc measure related to the Earth's surface. The results are as follows:

4671.820512 km (round figure given 4672) = 2522.628529 minutes

Radius of the Earth in minute-of-arc values = 3437.74677 minutes Therefore, 3437.74677 - 2522.628529 = 915.118241 minutes Therefore, the barycentre is 915.118241 minutes or nautical miles below the surface of the Earth. So, the relative difference between the barycentre from the Earth's centre and the Earth's surface is equal to: 2522.628529 - 915.118241 = 1607.510287Harmonic extension: $1607.510287 \times 6 \times 6 \times 6$ = 347222 347222×2 = 694444

So here again we have the harmonic of the speed of light (maximum) associated with the Earth-Moon centre of mass.

The next thing I looked at was the geometrics of the Moon's orbit. Several different values were given in the astronomy books for the mean distance between the centre of the Earth and the centre of the Moon during its almost circular orbit. I chose to use the value given in the book, *The Exploration of the Universe*, by Abell, Morrison and Wolf (1987). In this book it is stated: "The best determination to date gives the distance from the centre of the Earth to the centre of the Moon the value 384,404 km, with an uncertainty of about 0.5 km."

But the most interesting fact given in this book is that the diameter of the Moon divides into the circumference of its mean orbit <u>695</u> times.

Diameter of the Moon:

 $(2\pi \times 384404) \div 695$

= 3,475 kilometres

It then goes on to say that the most accurate calculation of the Moon's diameter to date is 3,475.9 kilometres, with an uncertainty of a few hundredths of a kilometre. In order to compute a very accurate value related to geometric harmonics, in previous work I found that it was necessary to fractionally alter the mean radius of the Moon's orbit and the given diameter.

I settled on a value of 3475.804269 kilometres for the diameter of the Moon, which was very close to the given margin of error, and a mean orbital radius of 384403.4591 kilometres, which was also very close to the given margin of error.

So, with a calculated mean orbit of 384403.4591 kilometres radius, the

circumference would be:= 2415278.167 kmDivided by the Moon's diameter:= 694.8832497

Now the reciprocal of harmonic 694.8832497 is 0.001439090655, or the harmonic of 143909.0655 minutes of arc per grid second, which is the velocity of propagation of electromagnetic waves, demonstrated in other parts of this book.

When this value is entered into Unified Equation 2, the results give the harmonic difference between the Earth's magnetic fields "A" and "B", which is equal to 3928371.

The mean orbital radius of 384403.4591 kilometres creates another set of very interesting harmonics if the area enclosed within the circumference of the orbit is calculated. A radius of 384403.4591 kilometres is equal to 207565.1514 minutes of arc or nautical miles. The area of the enclosed plane with this radius is equal to 1.3535015¹¹ square minutes (nautical miles).

If we convert the value harmonically by the multiplication of 36 for square measure:

1.3535015 x 36	$= 2.9462782^{20}$
Multiplied by 2	
2.9462782 ²⁰ x 2	= 5.8925564 ²⁰
Reciprocal	= 1.6970562-21
Squared:	$= 288^{-42}$

It appears that the orbit of the Moon has a direct mathematical relationship with the harmonic of twice the speed of light.

Other snippets of information about the Moon from the astronomy books are as follows:

The mean average distance from the surface of the Earth to the surface of the Moon is:

^{203374.4252} minutes of arc (or nautical miles), which is:

ţ

•	
200	= 3389.573753 degrees (relative)
^{3387.573753} ÷ 2	= 1694.786876 harmonic
At particular points in its orbit, the of 169444.	distance would produce a harmonic

forms an angle	dicular to the plane of its orbit, but = 83.31666 degrees	
This value squared	= 6941.666	
This is close to the 69444 harmoni	с.	
The average inclination of the Moo	on's orbit from the elliptic is:	
	= 5.1453 degrees	
This varies by 0.3 degrees around 173 days.	l its average value, with a period of	
90° - 5.1453°	= 84.8547 degrees	
If we make a fractional correction to this, which is well within the vari- ation:		
84.8528136 x 2	= 169.7056272	
Squared	= 288 harmonic	
Also:		
84.8528136 x 60	= 5091.168816 minutes of arc	

Divided by 2 = 2545.5844

(See polar grid squares and the Earth's magnetic field.)

There are obviously many odd things about the Moon. Strange activity on the surface, strange transient lights moving about, dome-shaped structures that appear and disappear, conventional-type buildings, strange machines working in the craters. This and much more has been pointed out in various publications regarding the Moon. I will leave others to cover this type of research. My interest is in the geometric placement of our close neighbour.

What intrigues me is that the harmonic values discovered on my computer are related directly to the length of one minute of arc on the Earth's surface. Is this a natural mathematical relationship, or is this trying to tell us that the Moon is an artificial structure? Was it placed there for some purpose some time in the distant past?

Ask your friendly astronomer for some answers and watch him scratch his head.

Diagram 17 - The Harmonic Geometrics of the Moon







Earth-Moon mean distance, centre to centre	= 384403.4591 km
Therefore, mean circumference of Moon's orbit	= 2415278.167 km
Mean diameter of the Moon	= 3475.804269 km
Division of the Moon's orbit by the diameter:	
2415278.167 ÷ 3475.804269	= 694.8832497
Reciprocal	= 0.001439090655

This value would be the harmonic of 143909.0655 minutes of arc per grid second—the speed of electromagnetic propagation.

Chapter Fourteen

THE PYRAMIDS OF MARS

Mars, called the "God of War" by the Greeks and Romans because of its reddish colour, occupies the next orbital path out from Earth. During its brightest period it outshines all other heavenly bodies except Venus. The distance from the Sun varies from 206,000,000 kilometres minimum to 249,000,000 km maximum, and at its closest proximity it comes to within 58,400,000 km of Earth. The oppositions occur at mean intervals of 780 days. The diameter of the planet is 6,794 km at the equator and 6,759 km at the poles, which makes it roughly half the size of Earth.

There has been much attention given to Mars over the last few years and NASA has carried out several photographic missions and landed hardware packages for scientific investigations of the planetary surface.

It is said that, apart from the Moon, this planet will be the first stepping-stone of man for the colonisation of the solar system and future ventures out into deep space. The surface conditions are desert-like, the atmosphere very tenuous and composed of ninety-five per cent carbon dioxide, roughly two per cent nitrogen, between one and two per cent argon, with the rest being made up of water vapour, carbon monoxide, oxygen, ozone, krypton and xenon. Strong winds sweep across the surface due to extreme temperature changes, making the general conditions inhospitable for human occupation. This will be overcome by the construction of sealed underground and surface stations similar to those being planned for the Moon.

There has been much speculation, since observation of the planet began, regarding the possibility that intelligent beings once lived on the Martian surface. Until the advent of the NASA probes, it was believed that the surface of Mars was criss-crossed with a complex system of canals to carry water from the snow-covered poles to the more arid areas. Close-up photographs soon destroyed this myth, but other evidence became visible which raised the question once again. Was Mar_s once the home of a thriving, intelligent race of beings that had access t_0 advanced scientific knowledge?

Close observation of some of the thousands of photographs taken of the surface features indicates the distinct possibility that an intelligent race did in fact inhabit the planet. Unusual geometric patterns in several areas appear to be created by the remains of ancient cities, and a number of large formations of pyramidal shape seem to be too geometrically perfect to have been the work of nature.

Mathematicians have carried out extensive studies of the pyramid forms and have come to the firm conclusion that intelligent beings constructed them in the distant past.

Another startling find on several of the photographs (particularly *Viking* frames 35A72,73,74) which cover 350 square kilometres, taken of an area called Cydonia, is what is now known as "The Face on Mars". Computer enhancement has shown that the mysterious formation is a perfect, gigantic sculpture of a humanlike face. The position is given as latitude 41° north and longitude 9.4° west. The size, approximately 1.6 miles long, 1.2 miles wide, with the height at least 1,650 feet above the surrounding desert. The latitude position could indicate that the sculpture-like mound is not a natural formation.

Displacement from the pole	= 49 degrees
Displacement from the equator	= 41 degrees
Difference	= 08 degrees
	= 28800 seconds of arc

The harmonic of twice the speed of light (geometric).

Other publications have gone into great detail regarding this formation, so we will leave speculation on the purpose behind this possible evidence of occupation by our ancient neighbours in space and concentrate on one of the large pyramid-type structures a few miles to the south-west. This particular edifice has been named the D & M Pyramid.

I was not aware of the work carried out by other investigators regarding the geometric placement and possibly very accurate geometric construction of these formations until I was contacted by a scientist friend in England. He had noticed certain similarities to values I had discovered in my work dealing with the geometric unified nature of the Universe, and sent me copies of the data published by Richard C. Hoagland in America. The Hoagland analysis of the Cydonia region demonstrated the geometric connections between many of the formations, and special attention was given to the D & M Pyramid. I am told that two years of work went into the mathematical probe of this one.

The photographs show a fairly clear outline of a five-sided pyramid which has allowed the investigators to make quite accurate calculations regarding the base angles and latitude position on the surface.

If the measurements presented by Mr Hoagland are accurate, then the base of the pyramid covers a huge area. By interpolation, the length of the survey appears to be:

4.411764705 minutes-of-arc long

and

3.970588235 minutes-of-arc wide

This would give a ratio of width to length of 1 to 1.1111111, which is quite remarkable. Nature could hardly come up with a coincidence such as this.

I was asked to check over the given values and see if I could verify them or find close approximations with my own work in geometric harmonics.

Inherent within the base angles were two harmonic values, 144 degrees and 69.4 degrees. The Hoagland analysis gave the value as 69.4 degrees, but I believe the actual value to be closer to 69.4444 (repeating decimal). This would be similar to my calculations for the geometric maximum for the speed of light, 144,000 minutes of arc per grid second, and the harmonic reciprocal.

The latitude position was given as 40.868 degrees north. Computer analysis indicated a more accurate position of 40.86786451 degrees north (a difference of approximately 49.5 feet). (See Diagrams 19 and 20.)

The displacement from true north of the whole pyramid complex was given as 10.5 degrees towards the east. According to an updated theoretical analysis, this could be closer to 10.472603 degrees. The displacement would then have a direct harmonic association with the gravitational values derived from Unified Equation 3, as follows:

$10.472603 \div 6 \div 6 \div 6 \div 6 \div 6$	$= 1.3467853^{-3}$
Multiplied by 2	$= 2.6935706^{-3}$
	= 26935706 harmonic
See value for 'E'.	

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This displacement also leads to a possible solution of the Tetrahedron theory related to the pyramid, by Richard C. Hoagland. The results will be published in a later paper.

The true gravitational 'speed' of light for the pyramid latitude 40.86786451 degrees (40° 52' 04.3122"), was found by computer to be 143466.1084 (±0.1567) minutes of arc per grid second.

If we subtract 143466.1084 from the maximum speed of light, 144000, we get:

144000 - 143466.1084	= 533.8916
533.8916 ÷ 6 ÷ 6 ÷ 6 ÷ 6	= 0.411953395 harmonic
Squared	= 0.169705599 harmonic
Squared	= 0.0288 harmonic
The 288 harmonic is twice the maximu	m speed-of-light harmonic,

144000.

The latitude value 40.86786451 degrees, treated harmonically, gives:

40.86786451 x6x6x6x6x6x6x6x6x6x6	= 411853914.3 harmonic
Squared	= 1.6962364 ¹⁷ harmonic
Squared	= 2.8772181 ³⁴ harmonic
Divided by 2	= 1.43860909 ³⁴ harmonic
This is the harmonic of the speed of light in	air from the unified tables,

143860.909 minutes of arc per grid second (at the equator).

The actual speed-of-light and electromagnetic-propagation values relative to the pyramid latitude, calculated by computer within an extremely small margin of error using the world energy grid program, are:

Gravity	Air	Vacuum	Electromagnetic	Maximum
143466.1084	143535.6	143565.9	143583.33	143675

Apart from the gravitational value, the relative value for electromagnetic propagation is of particular interest. With a calculated error factor of plus or minus 0.31 minutes of arc per grid second, we can derive the following harmonics:

Maximum speed of light	
(electromagnetic)	= 144000 minutes of arc per grid second
Relative speed of light	
(electromagnetic)	= 143583.333 minutes of arc per grid sec
Difference	= 416.666 minutes of arc per grid sec
416.666 [•] ÷ 6	= 69.44444

Harmonic 6944444', the maximum speed-of-light harmonic reciprocal.

The 694444 harmonic can also be derived from the angle formed by the chords projected from the pyramid's latitude position to the equator and the north pole.



$135 \div 6 \div 6 \div 6 \div 6 \div 6 \div 6 \div 6$	= 4.8225308 ⁻⁴ harmonic
Harmonic shift (multiplication by 10)	= 4.8225308 ⁻³ harmonic
The square root of 4.8225308 ⁻³	= 0.06944444 harmonic

If the D & M Pyramid is exactly what it appears to be, then we can assume that it has inner chambers similar to those in the Great Pyramid in Egypt and others scattered around the Earth's surface. The chord distances to theoretical positions within the pyramid, where chambers could have been geometrically placed, give values which can be related to the geometric unified equations. This aspect will be investigated further when more specific information is available.

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The odds against the results of the mathematical evidence being so close to the unified harmonic values, if nature alone were responsible for shaping this structure, are so remote that we must consider the possibility or almost certainty that an ancient race once inhabited our close planetary neighbour. Could some of us be their descendants? Lots of questions, no answers—as yet.



Speed of light calculated relative to the surface of Mars (latitude 40.86786451°):

Gravity	Air	Vacuum	Electromagnetic	Maximum
143466.1084	143535.6	143565.9	143583.333	143675
The values are in minutes of arc per grid second relative to the surface of Mars.				

Associated harmonic values related to the Matter-Antimatter Tables are as follows:

1693916943169451694616951Note:The harmonic geometric values are relative to any spherical
body in space, and the length of one minute of arc on the surface would
be calculated accordingly.

Chapter Fifteen

NIKOLA TESLA AND THE ELECTRIC CAR

In my carlier publications I demonstrated that Dr Nikola Tesla was fully conversant with the geometric unified nature of the Universe and made use of this knowledge to construct electronic apparatus in order to tap into the universal energy fields which permeate all of space.

His knowledge was so far ahead of his time that many of his inventions were not looked upon with favour and were quietly suppressed because they would have been a threat to many other contemporary ventures.

Information that has recently been made known concerns an electrically propelled car which he constructed in 1931. It is said that he removed the conventional engine from a Pierce Arrow car and substituted an electric motor of his own design. This was powered by what he called an energy receiver or gravitational energy converter, placed in front of the dashboard of the vehicle. The box containing the electronic apparatus was said to be 60 by 25 by 15 centimetres in dimension. There were 12 of the old-fashioned-type vacuum tubes in the box. Three of these were the 70-L-7 type. Connected to this was an antenna around 5.9 feet long. To make the converter work, two thick rods approximately 4 inches long, which protruded from the box, had to be pushed in. The car could reach a speed of 90 miles per hour with the motor at a maximum of 1,800 revs per minute.

Considering the modern-day problem of pollution, it is obvious that now is the time to re-invent the electric car. Some of the larger car companies are already designing vehicles which will be placed on the market in the near future. The efficiency of these cars, however, will not be anywhere near that of Tesla's because they will be powered by batteries which will require frequent recharging. Obviously the powers

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that be do not wish the general public to become aware that electrical energy, from a gravitational source, is available directly from the atmosphere.

Now that I have established a set of tables linking gravitational, light and electromagnetic harmonics, it is possible to search for evidence which will back up Tesla's claim that he was tapping into gravitational energy. The harmonic link to look for would be the 143791.364 value which creates the reciprocal of gravity acceleration in our reality or space-time continuum.

The length of the aerial in the car should show a harmonic relationship as it would have been necessary to design it in such a way that it was in harmony with the reciprocal gravitational factors. The given aerial length was approximately 5.9 feet. I found by calculation that a length of 5.914441183 feet gave the required relationship with the reciprocal gravitational harmonic, as follows:

5.914441183 feet	= 5.840461997 geo. feet
Divided by $6 \div 6 \div 6 \div 6 \div 6 \div 6 \div 6$	= 2.0863561 ^{.3} harmonic
Divided by 3	= 6.9545205*
Reciprocal	= 143791.364
The speed of light gravitational reciprocal.	(See tables.)

It will be seen from the tables that the difference between the speed

of light, 143791.364 minutes of arc per grid second (gravity reciprocal), and the maximum speed of light, 144000 minutes of arc per grid second, is 208.63561. This is the harmonic link with the aerial value of 2.0863561. The tapped energy is at a very high frequency and requires conversion to a much lower level for practical use.

I am sure that modern-day electronics specialists will have little trouble in reconstructing apparatus that will make available, once again, the unlimited energy which is inherent in our environment, now that the mathematical basis is known. I have tried to set up a team to carry out such a project in recent times but, once it becomes known, outside forces appear to intervene and cut off our funding.

Hopefully someone reading this will be more successful.

Chapter Sixteen

THE ROBERT ADAMS PULSED ELECTRIC MOTOR GENERATOR

Many inventors have striven to produce the ultimate free-energy machine that would help to break the monopoly control of power production held by the large international companies of today. The most well-known of these are Dr Nikola Tesla and Dr T. Henry Moray, both of whom managed to construct electrical apparatus that tapped energy directly from the gravitational field. In the case of Tesla particularly, the energy was then used to power conventional electric motors, which were not of great efficiency as shown in the previous chapter. I have no doubt that with the help of the harmonic unified theories demonstrated in this book, the secrets will be rediscovered in the not-too-distant future, but, in the meantime, other inventions are being made known to the public which could provide the breakthrough necessary to provide cheap and efficient power production.

A New Zealander, Mr Robert George Adams, born 2nd September 1920, is well on the way to doing this by publicly demonstrating new concepts in motor generating technology. At the early age of nine years, "Bob" commenced his venture into the mysteries of electromagnetics, radio-wave propagation and universal energy production. One of his first projects was to build himself a crystal set in order to tap into the universal energy field and listen in to these modified waves being broadcast from the early radio stations. The fact that these primitive assemblies of wires, coils and crystals hooked to makeshift aerial systems worked at all, mystified him. Where was the energy coming from? Scientists to this day, when asked this question, say the energy comes from the broadcasting station, but Bob was never satisfied with this answer. If thousands or, theoretically, an infinite number of crystal sets and radios were tapping energy from the broadcasting station, why is this supposed energy loss not detectable at the station? This was the time the young Adams was about to start on a lifetime venture into the exciting realms of electrical and electronic discovery and production of new and innovative circuitry.

At the age of 13 years, in 1933 he invented the solid-state amplifier consisting of two quartz crystals connected with cat's whiskers powered from 2×1.5 -volt and 4×1.5 -volt cells respectively and connected to the output of a crystal set, subsequently driving a loudspeaker (the forerunner of today's transistor and silicon chip).

He was too young to realise the importance of this accomplishment and its possible potential, except for one important point. If a crystal set, which is so small and of little weight, could receive and reproduce signals, why should a radio receiver be of such enormous dimensions and weight in those early wireless days of the 1930s? He figured that there must be a way to reduce such clumsy equipment, and had found the solution. Had he been older and wiser, naturally he would have persevered with the discovery. If he had done so, then electronics would probably be far more advanced than it is today.

In 1963 he invented the loudspeaker intercommunication telephone system and within three months secured a contract from Air New Zealand for a complete intercommunications system to cover the entire airport facilities.

Also in 1963 he invented the 'plug-in' printed circuit solid-state module/board now in common use in all modern electronic equipment. Industrial electronics control equipment, computers, telephone exchanges and communications equipment are but a few of the hundreds of applications for this device.

Then came the hybrid push-button telephone dialling system using electronics, but Strowger switching for line selection. He planned to incorporate this into the communications system being built for Air New Zealand but unfortunately the components required were not available in New Zealand during that time in the mid-'60s. This, too, would have been another early advance in the communications field and if pursued at the time would have heralded both types of telephones now in use, many years before they did in fact appear on the scene.

He built many very efficient battery-operated radios and power amplifiers and continually searched for new knowledge in the few publications available at that time. At the age of 14, in 1934, he left school and was offered an apprenticeship with a local wireless company in the town of Hastings.

He was 19 when he completed his time there, and he then left his home town to advance his knowledge and status in a position with an Auckland electronics company in their assembly plant. It was not long before he became, at the age of 22, the supervisor of factory production. At 27, he was the company's design engineer.

In the following years he spent time working on the control systems of broadcasting stations and designed much of the electronic equipment he was involved with. During this time he became a co-founder of Radio 1 New Zealand Limited.

Following this, he designed and commissioned sound and television studio recording systems and became New Zealand's first consulting engineer in broadcasting. In 1968 he published a manual which covered this type of engineering.

He also worked in some of the country's hydro-power stations as well as in the design and manufacture of highly efficient communications equipment for the country's major airline, Air New Zealand.

Among his many achievements are the following:

1970: Invented the Adams Pulsed Electric Motor Generator.

1970: Discovered the method of harnessing the collapsing field in an electric motor.

1975: Discovered a superior method of charging batteries (i.e., pulse charging).

1993: Discovered the procedure to engineer magnetic polarity reversal.

1993: Discovered an increase in the radiation pattern from the negative-energy, negative-time region of magnetic polarity reversal and the consequent radiation pattern measurement.

Other recent discoveries have been made which are yet to be made public.

It was during the late 1970s when Bob was in the formative stages in the development of the Adams Pulsed Electric Motor Generator that a small group of technical and engineering people started to take an interest in this particular area of his inventive abilities. Some of these people were personnel of Air New Zealand. At the time I was a Flight Captain and had interests along a similar line to Bob, and because of our sometimes offbeat approach to technical problems it was almost inevitable that some day we would meet. Sure enough, probably encouraged by our mutual connections in the airline, he phoned me one day in 1981 to discuss my publication which set forth my technical theories regarding the UFO enigma. Unknown to me, he had been following my work for a number of years and wished to delve deeper into the mathematical aspects of my research.

We had intermittent contact over the next few years and cautiously sounded out each other's ideas. Bob's machine slowly became a topic of discussion. He was pretty cagey at this stage and later became deeply involved with his invention and his own retail business, and our contacts became few and far between.

During this time he was being constantly plagued and frustrated by the negative attitude originating from the scientific establishment of the day. They refused to believe certain mathematical criteria pertaining to his machine's obviously outstanding performance. For 'belief' I probably should say 'acknowledge'. I was not aware of this, but when I eventually heard of his difficulties I was not surprised as I had suffered the same insulting behaviour for years. Thou shalt not rock the boat!

Bob contacted me again in 1985 and we became re-acquainted, this time on a more permanent basis, and since 1987 we have been constantly involved in each other's ventures and prime objectives.

Bob's machines have demonstrated the ability to generate free energy, unlike most of the theoretical models that are promoted as overunity devices.

A general description of one of Bob's earlier machines, in broad terms, would be an electric motor and/or generator comprising a rotor consisting of a number of radially-arrayed permanently-magnetised poles, and a stator consisting of a number of radially-arranged permanently-magnetised poles, together with a number of wound poles.

The rotors' permanently-magnetised poles use ferrite magnetic cores and may comprise any even number of poles. The stators' wound poles employ steel or iron cores. The device is essentially a DC machine, but may be fed AC input with the use of a solid-state converter.

The rotor is unique in that it uses a number of similar-polarity permanent magnetic poles that are all south-going or all north-going.

A further set of wound poles may be radially arrayed in the stator and arranged in such a manner as to be fed energy that is excited by the back EMF energy from the poles of the rotor. Associated circuitry is provided to feed the energy back to the drive poles of the motor and/or battery.

This effect also overcomes the electrodynamic torque problems associated with conventional motor designs. As input power varies with
the duty cycle pulse, the lower the input current, the higher the efficiency, the greater the power. At clip-off, the back EMF ceases; the collapsing field takes over, opposing the outgoing rotor magnet once again, thus increasing momentum.

A few other facts which relate to Bob's machines should be taken into consideration. If a machine is to run at unity, or better, it must first overcome those problems found in conventional machines. These, of course, are principally those of magnetic drag, hysteresis loss and eddy currents, all of which waste energy in heat and therefore require a cooling fan which in turn creates a further loss. His machines run cool in comparison with the conventional machines and therefore do not require cooling fans. In the conventional AC or DC machine, the internal heat of windings and stators reach boiling point within fifteen minutes. The Adams machine does not have this problem and runs almost at room temperature.

Another interesting feature is that if a small test model is to be constructed, it matters not whether standard, off-the-shelf alnico magnets or powerful magnets are used to prove that a machine can be built with over-unity capability. This has been demonstrated repeatedly with Bob's machines, using small and weak magnets. The only difference between using ordinary magnets like alnico and, for instance, samarium cobalt, is that you get greater energy output from the stronger magnets by way of their ability to detect and amplify the energy on a greater scale. Therefore, by use of the Adams pulsing system you can have a device using any ordinary magnets capable of not only 100 per cent efficiency, but also of being tuned into operating as a gate in detecting and delivering gravitational energy.

It has been found by experiment that by the application of the Adams Resonant Pulsed Frequency Equation and the Adams Pulsed EMG System, in combination with the Cathie Harmonic, Unified, Geometric, Light and Gravity Values, incredible energies can be very cleanly and easily made available.

Some recent comments published by Bob which relate to this are as follows:

"During the later months of 1992 I derived what I considered to be an equation for possibly the ultimate in rotary motor generator design. The purpose of this exercise was to ascertain whether further unconventional design features of the machine parameters, using this equation, proved certain theories which I had previously discussed with Mr Bruce Cathie, an internationally recognised New Zealand researcher in this field."

The work that we are both involved in now is to ascertain to what degree we can combine the harmonic unified theories discovered in my research with the construction of the advanced Adams pulsed machines.

We both believe that the ultimate in motor generator design could emerge from this collaboration. Efficiencies have already been increased, but the work is ongoing and there always seem to be more surprises round the corner.

The next step is to recreate the solid-state circuits invented by Tesla and Moray and again tap pure electrical energy from the all-pervasive gravitational fields. The unified gravitational and light geometric tables already give an indication of how this may be done with specifically tuned electronic circuitry. We may not make it, but it will be fun to try.

The information in this chapter is only a general overview of Bob's research into pulsed motor generator design and is not meant as a comprehensive explanation which would be necessary for the construction of a test model.











Chapter Seventeen

THE HARMONICS OF RIPPERSTONE FARM

I quite frequently call into a local second-hand bookshop, owned by a friend of mine, to browse through the stock for some light reading to fill in my spare time. As well as recreational material, I am also continually on the search for interesting bits of information to add to my research data, and quite often something turns up that merits particular attention.

On one recent visit I found my friend quietly reading a small, slightly dog-eared paperback at his desk during a quiet interval between customers. He has a general idea of the type of material I look for and said that maybe I should take the 14-year-old book with me and see what I thought of the strange story concerning the series of highly unusual happenings witnessed by a family on a farm in Wales, UK. He described some of the events and they certainly were bizarre. So I added the book to the others I had selected and returned home.

The next day I read the small book from cover to cover and had quite a strong feeling that the story was not a hoax. I therefore decided to carry out my own investigation to see if I could find some mathematical evidence to help verify the family's experiences.

The book was written by a journalist, Clive Harold, and was called *The Uninvited*, a "Star" book, published in 1979 by the paperback division of W. H. Allen & Co. Ltd, a Howard and Wyndham Company (44 Hill Street, London WIX 8LB, England, United Kingdom).

The events centred around Ripperstone Farm, situated on a clifftop overlooking St Bride's Bay, Wales. The tenant farmer, Mr William Coombs, his wife Pauline and their four children were subjected to a series of terrifying experiences over a period of many months, and to this day no logical explanation has been offered by those who have

investigated the happenings.

It all started on 14th January 1977 when Pauline sighted a brilliant white light from the farmhouse window. It was fairly high in the sky and appeared to be hovering over a field at the bottom of the farm, near the cliff edge.

While she watched, the giant white ball carried out a slow, swaying pendulum-like motion before it dropped down swiftly towards the cliff edge and disappeared.

When Pauline's husband Billy came in for dinner after working around the farm all day, she told him of the strange and exciting incident. Next day he went down to the coast path along the clifftops to see if there were any markings of any sort on the ground where the light had descended, and was surprised to find a number of soldiers in camouflaged uniforms, several unmarked Army trucks, and about fifty frogmen milling around. He was told to keep away from the area. The Army and Navy were supposedly rebuilding the coast road because there had been a landslide, but their excuse for their presence seemed a bit thin.

From that time on, the family was subjected to a whole string of frightening and mystifying incidents. The television set and house wiring burnt out time after time, and the electrical power consumption of the farmhouse and electrical machinery increased out of all proportion for no apparent reason. Low-pitched humming noises were often heard around the property.

Glowing lights were seen outside the windows at night, and large space-suited figures were seen wandering around the farm. At one time, two odd-looking humanlike entities arrived at the house driving an odd-looking, silver carlike vehicle. One of them stayed in the 'car' while the other walked around the house and knocked on the door. The son was home on his own and was so scared of the strange appearance of the 'men' that he swiftly locked all the doors and refused to answer.

The stranger then suddenly appeared at the neighbour's place and asked questions about the family in a peculiar robot-like voice. He then returned to the 'car' and it went back up the drive towards the main road—and then suddenly vanished.

On other occasions, the whole herd of cows belonging to the farm would suddenly disappear and turn up immediately at a neighbour's farm down the road, or sometimes with a significant time displacement.

Several large silver discs were sighted flying or hovering over the farm area during the months of nerve-racking activity, and each time the flight paths seemed to be over the cliff edges and into the water close to Stack Rocks. One of these sightings had a strange twist to it.

On this occasion, the Coombs family was returning to the farm after an outing when they saw a large domed disc above their car. They were just a short distance from the farmhouse. The disc then ascended slightly and moved across the fields, about 200 feet up, towards the cliff edge then down over the water towards Stack Rocks, about a quarter-mile off the coast.

Shortly after they got home, the Coombs were so excited at the close encounter that they decided to go for a walk along the clifftop coast path to see if the disc was still in the vicinity. They walked some distance along the path until they had an unobstructed view of Stack Rocks. The outcrop is a very barren, small island of rugged rocks with no plant life of any kind. Even the sea birds seem to keep clear of them. The only things that seemed to be attracted to the rocks were the huge flying discs which disappeared when they approached close to the outcrop.

The family was looking for some minutes out towards the rocks when suddenly they sighted two humanlike figures moving around the base of the rock-face, close to the water. The activity went on for a short time. Then, to their great surprise, they saw what appeared to be a doorway opening and closing in the side of the rocks as the figures moved in and out. One of the figures stood momentarily in the doorway and stared across at them as they watched in astonishment.

Unnerved at this completely unexpected turn of events, the Coombs turned and ran back down the coast path to the farmhouse.

I am not aware of what events have taken place since the writing of the book, but the family did say on several occasions that they intended to leave the farm and move to another district. I wrote a letter to Mr and Mrs Coombs on 20th August 1993, but up to this time I have not received an answer. I wanted to let them know that I intended to carry out an investigation of the area by computer and that if anything showed up of particular interest I would include it in this book. I would still be very interested in establishing communication with them if they ever read this.

The first thing I did was to write to England and obtain a very accurate survey map of the immediate area. The positions of Ripperstone Farm and Stack Rocks, off the coast, were clearly shown. The homestead and farm buildings were clearly marked. It was quite easy to extract very accurate latitude and longitude positions in order to carry out a check by computer. For this I used the *Gridworks* program, produced by Rod Maupin and myself, which calculates very accurately harmonic geometric positions, track angles and distances.

The key position appeared to be close to Stack Rocks. The activity of the humanlike figures and the apparent opening in the side of the rock-face suggested the possibility of an underground base of some sort. Access for the flying discs could be under the water. Pure conjecture, of course, but there must be some reason for the craft regularly disappearing at this point.

The first thing to ascertain was if any harmonic associations were evident in the latitude position of the rock outcrop. This was a simple calculation and it did not take long to find a definite connection with the gravity values in the unified tables.

The latitude passing through the centre of the outcrop is:

Latitude 51° 46' 28.3872" north, or 51.774552° north.

The small-circle circumference at this latitude, in minutes of arc relative to the equator (nautical miles):

	= 13365.15919 minutes of arc
13365.15919 ÷ 6 ÷ 6	= 371.2544218 harmonic
Reciprocal	= 2.693570600 harmonic

The harmonic 26935706 is the value of 'E' (energy) in geometric terms if the reciprocal value of gravity (speed of light, 143791.36438 minutes of arc per grid second) is entered into harmonic Unified Equation 3. An excellent beginning to the mathematical investigation.

The next step was to see if a longitude position close to the small island backed this up. Again, a short series of calculations showed positive results.

The longitude which passes very close to the western end of the island is:

Longitude 5° 10' 35.3607744" west, or 5.176489104° west.

 $5.176489104 \div 6 \div 6 = 0.14379136438$ harmonic The harmonic of the gravity reciprocal in the unified tables, 143791.36438 minutes of arc per grid second.

We can now verify both these values in Unified Equation 3:

$$E = \sqrt{[(2c + \sqrt{1/c}) \times (2c)^2]}, \text{ where 'c'} = 143791.36438}$$

26935706 = $\sqrt{[(287582.7286 + \sqrt{1/287582.7286}) \times (287582.7286)^2]}$
= $\sqrt{(2875827286 + 5896829800)} (82703825) \text{ harmonics}}$
= $\sqrt{(8772657086 \times 82703825)} \text{ harmonics}$
= $\sqrt{7255323} \text{ harmonics}$
= **26935706** harmonic

The odds for these two interrelated harmonics being present at the Stack Rocks position by chance are so astronomical that there is no question that this particular geometric point has been chosen as an interdimensional gateway, for scientific reasons, by the operators of the unidentified flying discs. It is obvious that there is a strong association of light and gravity harmonics close in to the Stack Rocks formation. At this point, the discs could undergo a displacement in space-time and disappear from view.

I decided to use this position as a central point from which to check the coordinates connecting the key positions on Ripperstone Farm. The farmhouse and the outbuildings.

First, the farmhouse. The calculated latitude and longitude proved to be:

Latitude 51° 45' 22.977" north / Longitude 5° 09' 39.223" west

The distance from the Stack Rocks position to the farmhouse was equal to 74.06430786 seconds of arc (relative), with a harmonic association as follows:

74.06430786 ÷ 6 ÷ 6	= 2.057341885 harmonic
Multiplied by 2	= 4.114683770 harmonic
Squared	= 16.93062252 harmonic
Squared	= 286.6459789 harmonic
Divided by 2	= 143.3229894 harmonic

This is equal to the harmonic of 143322.99 minutes of arc per grid second which would be the actual speed of light at the latitude of the farmhouse, or the actual reciprocal harmonic of gravity at that point. (This can be calculated from the unified light and gravity tables.)

This was not all. The track angle from the rocks produced a further harmonic:

Track angle	= 152.0188042 degrees
360 - 152.0188042	= 207.9811958 degrees
207.9811958 x 6 x 6 x 6 x 6	= 26954363000 harmonic

The harmonic 26954363 is equivalent to the value 'E' in harmonic Unified Equation 3, if the value of 'c' is equal to 143891.36492 minutes of arc per grid second—the speed of light in a vacuum.

There is no doubt in my mind that the 'aliens', or whoever, project some type of electromagnetic signal from the Stack Rocks position and create certain manifestations at the farmhouse—possibly in the form of holograms. The manifestations would have appeared real to the Coombs family and certainly scared the daylights out of them.

The other position on the farm where unusual happenings occurred was around the milking sheds and other farm buildings. I carried out the same exercise and calculated the distance and track angle from the Stack Rocks point.

The position close to the farm buildings:Latitude 51° 45' 33.912072" north / Longitude 5° 10' 02.5884" westThe distance from Stack Rocks= 58.22855856 seconds of arc
(relative)58.22855856 $\div 6 \div 6 \div 6$ = 0.26957666 harmonic

The harmonic 26957666 is the value of 'E' (energy) in geometric terms if the value of 'c', 143909.0655 minutes of arc per grid second (electromagnetic propagation speed) is entered into Harmonic Unified Equation 3.

Track angle	= 159.61248 degrees
159.61248 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x	x 6 x 6 x 6 x 6 x 6 x 6
	= 3.4744162 ¹¹ harmonic
Multiplied by 2	= 6.9488325 ¹¹ harmonic
Reciprocal	= 1.439090655 ⁻¹² harmonic
The harmonic of 143909.0655 minutes of arc per grid second.	

The latitude value of 51.75942002 degrees sets up another unusual association with the 143909.0655 harmonic. As mentioned earlier, the

harmonic process can be related directly with linear, square or cubic measure based on multiple or divisional increments of 6-that is, 6, 36. 216.

In this case we are dealing with an area of a partial cross-section of the Earth. If we take a cross-sectional cut through the Earth's centre, then calculate the area of the pie-shaped segment between the equator and latitude 51,75942002 degrees (see Diagram 26), then we have the following:

Radius of the Earth in minute-of-arc values (nautical miles) relative to = 3437.74677 minutes of arc (naut. miles) the Earth's surface:

Therefore, area of the Earth's cross-section:

= 37127665.09 square minutes of arc

(nautical miles)

(37127665.09 x 51.75942002) ÷ 360

	= 5338073.364 square minutes of arc	
5338073.364 ÷ 36 ÷ 36	= 4118.883766 harmonic	
Squared	= 16965203.47 harmonic	
Squared	= 28781812 ¹⁴ harmonic	
Divided by 2	= 14390906 ¹⁴ harmonic	
The harmonic of 143909.0655 minutes of arc per grid second.		

This particular value becomes evident in many different areas of my research and appears to be related to the atomic structure of our reality. When this value of 'c' is entered into harmonic Unified Equation 2, it also shows a direct relationship with the Earth's magnetic fields. Could this be a key resonance for the manipulation of space-time?

The fact that this value is so prevalent in the geometric pattern of activity on Ripperstone Farm proves to me that the Coombs family was telling the truth about their frightening experiences.

It is difficult to figure out what the reason was for all the strange activities observed in this small area. Were the aliens purposely trying to scare the heck out of the Coombs family so that they could observe their reactions, or was some scientific experiment being carried out which just happened to be in the vicinity of the farm? We may never know the answer to this, but the Coombs family certainly had an exciting time for a few months.



Chapter Eighteen

THE U.S.S. PUEBLO

In January 1968, the North Koreans created an incident that could possibly have sparked off the start of World War III. They had the cheek to hijack one of America's electronic intelligence-gathering ships, said to be in international waters off the coast of Korea.

The U.S.S. Pueblo was a small, 179-foot-long, ship, fully equipped with the latest state-of-the-art intelligence-gathering gear: radars, sonars, navigation instruments and long-range radio. She was one of a fleet of ships that cruised the international waters off the coasts of China, North Korea and Russia. The Cold War was at its height and both Russia and America had similar ships that collected and analysed all communications between between the governments and military forces of the opposing factions.

The Captain of the *Pueblo*, Lloyd M. Bucher, was not particularly worried when a North Korean torpedo boat approached the *Pueblo*. Both sides were quite used to being harassed by their counterparts during the game of electronic snooping. The situation rapidly changed, though, about an hour later when three more North Korean ships appeared and took up station around his boat.

Bucher had no choice other than to follow orders signalled to him and allow his boat to be herded into the port of Wonsan. Before shutting down transmission, the *Pueblo* radioed a message to Yokosuka that they had been boarded by North Koreans and the ship was under arrest.

Then all hell broke loose. The Americans were naturally upset about the pirate action and considered the incident an "act of war". Threats were made, but eventually things calmed down a little and the American authorities backed off any direct confrontation. The crew was released and returned to the United States.

At the time, the story was world news and everybody had bated breath wondering what the outcome would be. Any reader who wishes to know more about the incident will find plenty of information in the newspaper archives of the time.

What interested me was why the Koreans had zeroed in on this particular boat. Was it, in fact, within the 12-mile limit and in territorial waters as they claimed? Was there something special about the action that made the Koreans and possibly the Russians edgy?

The Americans said the ship was in international waters at latitude 39° 25' north and longitude 127° 54' east. The North Koreans insisted that the ship was in their territorial waters at latitude 39° 17' north and longitude 127° 47' east.

Out of curiosity I decided to check the position closer inland to see if there was anything unusual about it that would alert the Koreans. The Russian naval base at Vladivostok was not too far north and the Chinese atomic testing ground at Lop Nor was inland to the north-west.

The position of the *Pueblo* claimed by the Koreans was given in degrees and minutes of arc. A more accurate position would have been given in degrees, minutes and seconds, each second being equivalent to 100 geodetic feet.



I found that by adding the small increments of 1.356 seconds to the latitude and 5.3 seconds to the longitude values, the following harmonics would be evident:

Great-circle distance to 180°	= 2389.71 minutes
Great-circle distance to 90°	= 1741.71 minutes
Difference (relative)	$= \underline{648.00}$ minutes
Square root of 648	= 25.455844 harmonic

Reciprocal= 0.03928371 harmonicThe Pueblo latitude= 39.28371 degrees

It can be seen that both the latitude and the longitude of the ship position would set up a harmonic related to the Earth's magnetic fields, 3928371.

The odds that such a small correction would produce the harmonic values associated with the unified tables would give credence to the fact that the Koreans did not specify this position randomly. It is almost certain that at some time the American ship had occupied this location and that for some reason it was important enough for the ship to breach the 12 mile territorial limit.

The actual speed-of-light values for this latitude also reinforced the circumstantial evidence that the ship was, at one time, stationed at this position.

The actual speed of light (gravity reciprocal) calculated from the geo-
metric unified tables for this latitude:= 143486.5739 ± 1 144000 - 143486.5739= 513.42612 harmonicSquared= 263606.3806 harmonic



Map 2 - Showing the claimed positions of Pueblo when intercepted.

Squared= 6.9488323 harmonicReciprocal= 1.43909065^{-11} harmonicThe harmonic of 143909.0655 minutes of arc per grid second.

The actual speed of light (vacuum) calculated from the geometric u_{ni} fied tables for this latitude: = 143586.2845 ±1 144000 - 143586.2845 = 413.71554 harmonic 413.71554 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6 = 69488325 harmonic Reciprocal = 1.439090655° harmonic The harmonic of 143909.0655 minutes of arc per grid second.

I have found that this 143909.0655 value becomes evident quite frequently in my investigations of scientific activity around the world, particularly in communications. The fact that the *Pueblo* was in a perfect position to intercept transmissions from the Russian Naval base at Vladivostok and from the Chinese atomic test grounds at Lop Nor probably triggered the hostile action.

Whatever roused the anger of the Koreans (possibly encouraged by the Russians and Chinese), it must have been important enough to risk the retaliation of the American forces. Why, in fact, did the Americans not retaliate? Were they afraid that too many secrets would be uncovered?

Chapter Nineteen

THE CATASTROPHE AT KYSHTYM

How many of us in the Western world have heard of a town called Kyshtym? It is, or was, situated close to the Ural mountain range in the former Soviet Union, and until one fatal day in late 1957 it was a thriving community of around 150,000 people in one of the most populated areas of the country. Today there could be less than 50,000 of these people alive and they can only look forward to a questionable future because of a possible slow and painful death by radiation poisoning.

It is said that the town was once a thriving industrial centre, but now marks the ground zero point of a few thousand square kilometres of barren wasteland and death. The area is scattered with the remains of forests and farmland, the rubble of houses and deserted villages. Not a thing moves; no animals, birds or a single human being can be seen. The lucky ones died instantly when a gigantic explosion razed the countryside. Many more died months later from radiation poisoning and the rest are succumbing slowly to the effects of leukaemia and other types of cancers.

The story has been suppressed by the Soviets and the scientists of the West for many years and it is only in recent times that the facts were made known by a Russian scientist who is now living in London. He spent two years investigating the incident to try to find the truth. This was the biggest nuclear disaster since the bombing of Hiroshima and Nagasaki and the authorities were desperate to keep the story from the world.

When the scientist Zhores Medvedev arrived in the West in 1973, he was surprised that word of the incident had not leaked out. He said that "most Russian scientists had at least indirect knowledge of the disaster" and added that he had known about it for years. It is said that the hor-

rendous explosion was caused by the accidental detonation of highquality nuclear waste from one of the Russians' weapons projects that had been buried in trenches in the vicinity of the town.

When Medvedev mentioned the incident in a magazine article which he was asked to write regarding the scientific achievements of the Russians, there was an immediate reaction from the Western press. Round about this time there was much argument going on about the disposal of nuclear waste that was being shipped to England from Japan and no one wanted any rocking of the boat by news of this nature. The Soviets, as usual, said nothing, but the nuclear experts from France, Britain and the United States pronounced the whole story as rubbish. Medvedev was most disturbed at the violent reaction by the Western scientists to his article.

"They were putting my reputation in question. I was represented as an anti-nuclear activist and they made out that I wanted people to be afraid of nuclear power. That was not true, so I had to make some effort to clear myself and to prove that I was not writing science fiction."

In order to present all the known facts, he wrote a book called *Nuclear Disaster in the Urals*, and this effectively silenced the critics.

More information to back up the story came from Professor Lev Tumerman, who is now the head of the physics department of the Jerusalem University. He left his native land and migrated to Israel in the early '70s. He has actually travelled through the disaster area, and described the scene as follows:

"The signs warned the drivers not to stop for the next 30 kilometres and to drive through at maximum speed and with all the windows shut. On both sides of the road, as far as the eye could see, the land was dead and no villages or towns existed. Only the chimneys of the destroyed houses.

"There were no cultivated fields, no herds, no people, nothing. The whole area was exceedingly hot. An enormous area had been laid waste, rendered useless and unproductive for a very long time, perhaps for hundreds of years. When the Americans had their emergency at Three Mile Island nuclear power station, the Soviet authorities gloated that no such emergency had ever happened in Russia. They said their safeguards were so thorough that every possible emergency could be dealt with. Of course they were lying. They had not only an emergency, but a disaster."

When I read the story a couple of years ago I was highly intrigued,

and clipped it out of the newspaper for filing and future reference as there was a mass of evidence now available that proved conclusively that an atomic explosion could only be caused by a geometric process. (I have demonstrated this in my previous books.) This has also been admitted to me by intelligence personnel and a nuclear scientist. The Russians, of course, would be fully aware of this through their own nuclear programs.

I would not have thought that atomic waste, no matter how carelessly disposed of, could have caused such a gigantic explosion. The geometric arrangements necessary for the detonation of an atomic bomb are very complex and require an exact process, so it seems unlikely that, without some unknown factor being present in the area, an explosion could occur. But facts are facts and, regardless of the reason, the catastrophe did take place. The truth of the matter may never be known.

Obviously all the required geometric coordinates were present at the point of detonation, so a computer check of the area should show the probability of an explosion if certain harmonic values were evident.

The central position of the town of Kyshtym, according to my volume of the *Times World Index*, is:

Latitude 55° 43' north / Longitude 60° 32' east

The calculated latitude and longitude associated with grid harmonics: Latitude 55° 42' 54.958" north / Longitude 60° 32' 31.844472" east

The actual speed of light (gravitational acceleration reciprocal), calculated from the geometric unified tables for this latitude, is 143273.2843 ± 1 minutes of arc per grid second. If we subtract this from the maximum we get:

144000 - 143273.2843	=	726.71575 harmonic
Square root	Ŧ	26.957666 harmonic

This is the harmonic of 'E' (energy), 26957666, if the value 143909.0655 minutes of arc per grid second is entered into Harmonic Unified Equation 3.

The actual speed of light (vacuum) calculated from the geometric unified tables for this latitude is 143373.185 ± 1 . If we subtract this from the maximum, we get:

144000 - 143373.185

= 626.815 harmonic

 $626.815 \div 6 \div 6 \div 6$ = 0.483653548 harmonic

 Square root
 = 0.69545205 harmonic

 Reciprocal
 = 1.4379136 harmonic

The harmonic of 143791.36 minutes of arc per grid second (gravity reciprocal).

The difference in longitude from longitude zero and longitude 90 degrees of the harmonic point is equal to:

60.54217902 - 29.45782098	= 31.08435804 harmonic
31.08435804 ÷ 6 ÷ 6 ÷ 6	= 0.1439090655 harmonic

The harmonic of 143909.0655 minutes of arc per grid second. (See Diagram 29.) The harmonic factor of 143909.0655 can also be found in the pie-shaped cross-sectional area between the equator and the latitude at Kyshtym. (See Diagram 28.)

The geometric evidence indicates that Kyshtym was not a randomly chosen position for atomic experimentation. The geometric coordinates centred on this area made it a most probable position for an atomic detonation if all the right parameters were brought together at the right instant of time.

The harmonics associated with gravitation and the unified field were, without doubt, the prime cause of the explosion and consequent devastation. I do not believe that an atomic waste dump was the only cause. Could this have been an experiment that went radically wrong? Did the scientists overreach themselves in their search for knowledge?

The geometric harmonic of this value can be shifted up or down the scale by multiplying or dividing by (6×6) or 36. So:

5746049.321 x 36 x 36 x 36 x 36 x 36

	= 3.4744162 ¹⁴ harmonic
Multiplied by 2	= 6.9488325 ¹⁴ harmonic
Reciprocal	= 1.439090655 ⁻¹⁵ harmonic
	= 143909.0655 harmonic

The speed of light (electromagnetic). (See gravity conversion tables.)





Chapter Twenty

THE HARMONICS OF A BLACK HOLE

The harmonic unified tables indicate to us that the Universe is manifested from the gravitational fields. The whole of our reality and sense of time is created by the interlocking electromagnetic wave-forms which come into being due to an inverse reaction to the all-pervading gravitational forces. We live in a type of galactic hologram that appears to us to have form and solidity, but in fact can be likened to nothing more than a puff of smoke. The Grand Illusion.

The tables also tell us that as the gravitational force increases, the 'speed' or acceleration of light, or electromagnetic propagation, decreases. The tables, therefore, help to explain black holes.

Black holes are regions in space where the gravitational forces have increased to such an extent that no atomic particles can escape, even at the speed of light. The perfect atomic prison. They are formed when a star of certain mass limits, consumes all of its thermonuclear energy and collapses to a fraction of its normal size. The surface of the mass then becomes a gravitational boundary which is called the event horizon.

In the case of a non-rotating black hole, the collapsed matter is crushed to theoretical zero volume and infinite density at what is called the singularity, or centre.

In the case of a rotating black hole, this state of oblivion or singularity need not occur. It has been suggested that this type may provide a gateway to another Universe or, possibly, anti-Universe.

The radius of a black hole is proportional to its mass. The density of a black hole at the time of formation is inversely proportional to the square of its mass. According to theory, the radius of the Earth would have to be reduced to nearly a third of an inch in order to create a black hole, which brings us to an extremely interesting proposition.

I assumed that if the unified tables that I had calculated were correct, then the geometry in relation to the event horizon of a black hole would have to conform to the unified values. If a relationship could be found, then the geometry of all black holes would follow a similar pattern.

A short time on the computer indicated that the critical radius for the formation of a black hole from an Earth-size planet would be:

	 = 0.33371977 British inches = 0.32954553 geodetic inches
The radius of the Earth:	= 3437.74677 nautical miles (minutes of arc)
	= 20626480.62 geodetic feet
	= 247517767.4 geodetic inches

Therefore, the radius of the Earth divided by the radius of the theoretical black hole is:

247517767.4 ÷ 0.3295455	= 751088225.6 units.
If we shift this value on the harmonic	onic scale by the division of 6, then:
751088225.6 ÷ 6 ÷ 6	= 20863561.81 harmonic

If we now check the unified tables, we find that the similar harmonic of 208.635618 is the difference between the light harmonic, which is the reciprocal of gravity acceleration, and the maximum of 144000.

The value 208.635618 is also three times the gravity acceleration harmonic of 69.5452056, which in turn is the reciprocal of the harmonic 143791.36, the acceleration of light at that level.

A bit confusing, but a study of the tables will show the relationships.

This will demonstrate that the radius of a black hole has a very definite relationship with the gravity acceleration value at the equator of the original body before collapse.

The circumference of the black hole, which forms the event horizon, also conforms to the unified geometric values.

A black hole radius of:	0.32954553 geodetic inches
	= 0.027462127 geodetic feet
Therefore, diameter	= 0.054924255 geodetic feet
Therefore, circumference	= 0.172549636 geodetic feet
	= 2.8758272 ⁻⁵ nautical miles
Divided by 2	= 1.4379136 ⁻⁵ harmonic

Again, this is the harmonic of 143791.36 minutes of arc per grid second, or the gravitational reciprocal.

A rotating black hole is said to give off some radiation due to the spin. This should be so if the circumference at the event horizon is harmonically tuned to the gravitational speed-of-light value. Each revolution would create a wave in resonance with the reciprocal light factor of the gravity forces.

I note in Stephen Hawking's book, Beyond the Black Hole, he states:

"Although particle physicists may be coming close to a unified theory of the Universe with the three forces that push and pull within the atom, gravitation is still the odd force out."

And also:

"There are several groups of scientists working on unifying all the forces, trying to add gravity to the other three. Gell-Mann told me, 'Most of them don't know what they are doing. They're just using various mathematical tricks.""

I would respectfully suggest that they approach the problem by the use of unified geometry.

Time will tell whether this approach is correct.

Chapter Twenty-One

HARMONIC CLUES TO THE UNIFIED FIELDS

The Harmonics of the Soviet Ratan-600 Radio Telescope

This device, built to probe the galaxy, includes a large circular mirror which has a given diameter of 1,890 feet. This is made up of 895 separate moveable panels, each 6.6 by 24 feet. Inside the circle is a moveable plane mirror 1,312 feet long and 27 feet high, plus five focal receiving stations mounted on rails. Each one contains a secondary reflector of 26 by 18 feet. It operates within a range of 8 millimetres and 20 centimetres wavelength.

The position of the telescope is given as close to the town of Zelenchukskaya in the Caucasus mountains.

A routine check of the given diameter of this gigantic instrument again showed a correlation with the secret unified geometry.

Diameter 1,890 feet divided by 6,076 = 0.311059907 n. miles Therefore, circumference of circle = 0.977223521 n. miles One nautical mile is equal to one minute of arc.

A shift in the harmonic scale by the powers of 6:

= 2.6935817[•] harmonic

This is very close to the value of 'E' in Unified Equation 3 when the gravity reciprocal value of 143791.36438 is inserted into the equation—the 26935706 harmonic.

Therefore, working backwards:

- = 0.97721948 n.m. circumference
- = 0.31105862 naut.miles diameter
- = 1889.99210 feet

The fractional error is so small that I feel certain the instrument has been tuned to gravitational harmonics.

The Great Pyramid Harmonics

In my earlier books I demonstrated how the geometric unified harmonics were incorporated in the construction of the Great Pyramid in Egypt:

"It is obvious that knowledge of vast importance to mankind is locked up in the secrets of the pyramids, and the very word pyramid should give us the first clue. The literal meaning is "fire in the middle". On page 86 of The Great Pyramid—Its Divine Message, by D Davidson and H. Aldersmith, another derivation of the word is given. Pyramid is the Grecianised form of the Hebrew Urrim-Middin ("light measures"). The Egyptian name for the Great Pyramid is Khuti ("the lights"). In the Semitic languages, the equivalent name is Urim ("the lights"). In Chaldee and Hebrew, Middin means "treasures", hence the Chaldee-Hebrew name of the Great Pyramid. In Egyptian, Khuti ("the lights") is Urim-Middin (Purim-Middin or "lights-measures").

"The geometric analysis of the Great Pyramid made it evident that the light and gravity harmonics were incorporated throughout the structure. The purpose of the completed stone complex is yet to be discovered but I still believe that one of the main functions was communication over vast distances."

Now that *Gridworks*, the computer program for calculating the world energy grid system, is available it is possible to demonstrate that the geometric positioning of the Pyramid was also an important factor governing the harmonic tuning to the light and gravity resonances.

The position of the Pyramid is generally given as:

Latitude 29° 58' 51" north / Longitude 31° 09' 00" east

The latitude value can be taken as fairly accurate but, as yet, I have been unable to obtain a modern, accurate, large-scale survey map of the area that shows the true longitude clearly.

I have found that if I use a position of:

Latitude 29° 58' 50.952" north / Longitude 139° 09' 35.52" east, the computer will produce a position on Grid "B" (the world energy grid system) of:

Latitude 21° 21' 14.573" north / Longitude 139° 53' 09.95" east, or Latitude 21.3540482° north / Longitude 139.8860974° east

If we examine the latitude value harmonically within the 90° sector, we have:

90 - 21.3540482	= 68.6459518
Multiplied by the 6 harmonic	= 411.8757108
Squared	= 169641.604
Squared	$= 2.87782720^{10}$
Divided by 2	= 1.43891360 ¹⁰ harmonic

This is the harmonic of the speed of light in a vacuum, 143891.36 minutes of arc per grid second.

Examining the longitude value harmonically:

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139.8860974 - 90	= 49.8860974
90 - 49.8860974	= 40.1139026
49.8860974 - 40.1139026	= 9.77219480 harmonic
Harmonic shift divided by 6:	

Harmonic 26935706 is equal to the value of 'E' in harmonic Unified Equation 3 when the gravitational reciprocal value 143791.36 is entered into the equation.

More research is yet to be carried out on this as more information becomes available, and further fractional corrections are made to the computer programs, but the calculations so far are showing some interesting results.

It appears that the Great Pyramid is placed very accurately on the world energy grid system.

Experiments by Dr T. Henry Moray

Dr Hans A. Nieper writes in one of his books:

"The American physicist Dr T. Henry Moray directed Tesla-modulated frequencies into a 15-metre insulated cable. By this he was able to extract up to 70 kW of useful electrical energy."

This was in the late '20s and early '30s. These were experiments to extract energy directly from the surrounding gravitational fields.

If we want to convert metres into harmonic units, then:

(15 x 39.370079 x 6000) ÷ (12 x 6076)	= 48.59703629
48.59703629 ÷6÷6÷6÷6÷6÷6÷6÷6	= 4.8222367 ⁻⁶ harmonic
Square root of the 48.222367 harmonic	= 6.9442326 ⁻³ harmonic

It appears that a length very close to 15 metres produces the harmonic reciprocal of the maximum light speed, 144000 minutes of arc per grid second, namely, 6944444. Tesla and Moray knew how to tune their circuits.

The Harmonics of the Area of the Sun's Cross-Section in Relation to the Earth

Radius of the Sun is given as	= 696,000 kilometres
Conversion to nautical miles, or minutes surface:	of arc relative to the Earth's
(696000 x 3280.839)÷ 6076	= 375816.9756 n. miles
Therefore, area of the Sun's cross-section	$= 4.4371351^{11}$ sq. n. miles
Shifting harmonically:	
4.4371351" x36x36x36x36x36x36x36x36	= 3.4771238 ²² harmonic
Multiplied by 2	= 6.9542477 ²² harmonic

Multiplied by 2

If we use the gravity acceleration value of 695452056 harmonic at the Earth's surface, derived from the unified tables, and work backwards, we have:

6.95452056 ²² ÷ 2	= 3.47726028 ²²
3.47726028 ²² ÷36÷36÷36÷36÷36÷36÷36	$= 4.4373092^{11}$ sq. n. miles
Therefore, the radius	= 375824.34 naut. miles
	= 696013.6495 km

The difference of 13.6495 km is so small that I would venture to say that the area of the Sun's cross-section is harmonically tuned to the value of gravity acceleration at the Earth's surface.

The Harmonics of the Earth's Orbit

It was recently brought to my attention that the Earth's orbit has a definite harmonic association with the geometry of the unified fields. Mr Jeffrey Cook of Derbyshire, England, has sent me many small snippets of information over the years, and in his latest letter he says:

"I am still convinced that the elliptical orbit of the Earth and its varying distance from the Sun contains all the important harmonic values you have discovered, when the distances are expressed in nautical miles." (minutes of arc at the Earth's surface).

According to the astronomy books, the Earth lies at an average distance of 93 million miles from the Sun. It can come as close as 91.4 million miles, perihelion, or as far as 94.5 million miles, aphelion.

Average value, 93 million miles	= 80,816,326.53 nautical miles
Therefore, radius of orbit	= 80,816,326.53 nautical miles
Diameter of orbit	= 161,632,653 nautical miles
161,632,653 ÷ 60	= 2,693,877.55 degrees (relative)

It appears that the average diameter of the Earth's orbit could have a direct association with the energy harmonic derived from Unified Equation 3 when the gravity reciprocal value 143791.36 is entered into the equation, or:

E	= 26935706 harmonic
Working backwards:	
2,693,570.6 x 60	= 161,614,242 n. miles diameter
Divided by 2	= 80,807,118 naut. miles radius
	= 92,989,403.2 miles av. radius

A very close check of the absolute values of orbital distance should indicate some surprising correlations with the unified tables.

The Earth-Sun relationship could be the key to the unlocking of all the harmonic geometrics of the solar system and help to prove the unified concepts. This alone will be a very interesting study for the future. Thank you, Jeffrey.

The Harmonic Cross-Sectional Area of the Earth in Relation to Gravitation

The circumference of the Earth is equal to 21,600 nautical miles, or minutes of arc at the Earth's surface. The radius is therefore 3437.74677 nautical miles, or minutes of arc (relative).

From this we can calculate the area of the Earth's cross-section in square nautical miles, or minutes of arc (relative).

3437.74677 x 3437.74677 x 3.1415926

= 37127665.09 sq. nautical miles

Reciprocal

= 26934093 harmonic

(disregarding decimal points)

The harmonic 26934093 is very close to the value 'E' in Unified Equation 3 if the gravity reciprocal value of 143791.2143565 minutes of arc per grid second is the 'c' value entered into the equation. The value for 'E' would then be harmonic 26935678.

As all matter is manifested from the unified fields of space, it is possible that the geometry of the Earth's cross-section is arranged in such a way that this particular gravitational value becomes evident.

I discovered by calculation that a very accurate geometric pattern could be achieved if it was assumed that the Earth had a comparatively small inner core of plasma.

The radius of the core would be 26.371438 nautical miles, or minutes of arc relative to the Earth's surface.

Square of 26.371438	= 695.45278 harmonic
Reciprocal	$= 1.437912143565^{-3}$

The harmonic 143791.2143565 is the reciprocal of the gravitational acceleration value in the electromagnetic propagation unified tables.

The area of the cross-section of the inner plasma core would be:

= 2184.829225 square naut. miles

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If we now subtract the cross-sectional area of the plasma core from the total cross-sectional area of the Earth, then:

37127665.09 - 2184.829225 = 37125480.27

Reciprocal

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 = 26935678 harmonic (disregarding decimal points)

The value for 'E' in Unified Equation 3 is as follows, where 'c' is equal to 143791.2143565:

$$E = \sqrt{[(2c + \sqrt{1/2c}) \times (2c)^2]}$$

- $= \sqrt{[(287582.4286 + \sqrt{1/287582.4286}) \times (287582.4286)^2]}$
- $= \sqrt{[(287582.4286 + 5896832972)(8270365324)]}$ harmonics
- $= \sqrt{(8772657258 \times 8270365324)}$ harmonics
- = $\sqrt{7255308}$ harmonics
- = 26935678 harmonic (disregarding decimal points).

The Harmonic Cross-Sectional Area of the Earth in Relation to Gravitation

Radius of the Earth	= 3437.74677 naut. miles (mins. of arc)
Circumference of the Earth	= 21,600 nautical miles (minutes of arc)

Total area of cross-section = 37127665.09 square nautical miles

The harmonic of gravity acceleration at the Earth's surface (equator) is equal to 6.954527816^{-5} .

The harmonic reciprocal (speed of light) is equal to 143791.2143565 minutes of arc per grid second (electromagnetic table).



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Epilogue

This book has been written mainly for the serious researcher who wishes to delve into the secrets of the harmonic structure of the Universe. I realise that the information enclosed is only a first faltering step into the concepts of harmonic mathematics, but I am quietly confident that the values demonstrated are reasonably accurate and that many scientific projects are in progress in various countries around the world that make use of this hidden knowledge.

I have discovered a number of structures myself that conform to the harmonic concepts. The geometric positioning and relationship with other sites sometimes suggests that other, more secret activity is taking place in certain areas.

All of this unpublished information I have filed and lodged in safe keeping, and I have also forwarded copies to higher authorities.

Certain transmitters and power stations fall into this category. Some of the interesting harmonics evident are displacements of 509.11688 minutes of arc and 208.635617 degrees between installations, and various latitudes and longitudes that give specific harmonic resonances one value being latitude 41.188837 degrees. The clues to the harmonic relationships are to be found in the demonstrated unified tables and unified equations. The unified equations have been tested and found to be correct.

Billions of dollars are being spent on this activity—and it's our money. We have a right to know who is controlling the secret projects and what the final outcome is going to be.

I have stated before in my writings that we are being conned, and the present uncovered evidence more than reinforces this statement. In the past, thousands of my books were destroyed without explanation, and my work was virtually forced off the market. I was informed by an intelligence agent some years ago that my work would be suppressed, and "they", whoever they are, have almost succeeded.

Almost—but not quite.

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