

Fitzpatrick's

view of this universe

(a Theory of Everything)

Chapter 1

Einstein's search for a Unified Field Theory

It's been over 50 years now since Einstein's search for his Unified Field Concept. It's been over two centuries since Faraday tried to unify magnetism & gravity. Magnetism & gravity were the only two fundamental invisible forces known in Faraday's time. Later came the strong force and the weak force, which Einstein knew about so Einstein took it upon himself to try to unify all four of these invisible forces but he failed.

About now the reader is going to ask, "Who is this guy writing this and what position is he in to put out a Theory of Everything."

Well I'm a radioman or at least that's what I set out to be and it's how I think of myself.

I lived in Linden, New Jersey in the 1940s and before the 1940s ended and before I graduated from high school, I had, in my pocket, my class B Amateur Radio License, my Class A Amateur Radio License, my 2nd Class Radiotelephone license and my private pilot's license all obtained by my own efforts studying

and working by selling magazines, newspapers & working in stores. I also had my own 150 watt amateur radio station up & running then. I had two 812As in the final in push-pull. They were fancy things with finned tantalum plates that cost me an enormous \$5 apiece way back then. That was a lot of money for a kid to fork out in those days.

I graduated from Linden High School and still have the copy of their Cynosure of 1950 and underneath my picture it says "Science is the key to life" and how right they were.

I learned to fly at Bart's Airport near Budd Lake, N.J. and those hours in the air over northern New Jersey and Pennsylvania were the golden hours of my youth that I will never forget.

After graduating from Linden High, I bought a 1937 Chevy (with an actual 20,000 miles on it) from a little old lady for \$300 and drove it to Florida to see the Florida Air Show. I simply stayed in Florida and never came back to New Jersey again. Miami was country back then. I loved it. I bought an Aeronca 7-AC Champion aircraft and flew and flew and flew all over South Florida.

But Chapter 1. of this book really begins one day in the brand spanking new air-conditioned Pan American Airline complex that Juan Trippe built on 36th Street in Miami to house his almost 4 decade old world wide enterprise that Juan Trippe thought would last forever. Who would have ever believed that Maggie Thatcher, who once operated a grocery store, would become Prime Minister of England? And who would have ever believed that she would read the works of an economist named Friedrich von Hayek? And who would have ever believed she would have convinced Ronald Regan that deregulation was the road to prosperity? And who would have believed that Regan would have listened to her and move to deregulate the airlines? Shortly thereafter Juan Trippe's vast world-wide empire of the air came to an abrupt end.

But before that happened at Pan am one day, Jim Ingraham had just overhauled an RCA Radar Indicator which was "in sync" at the bottom instead of at the top. While seeking a remedy to prevent that ever happening again, I was looking at the indicator coil and I noted that this problem would not happen if the top inside wires on the coil went in the same direction as the electrons in the cathode ray tube beam.

I will never forget that RCA Radar Indicator or that day at Pan Am because it has taken me down a far different path in life than I would have gone down without it.

I realized that day that those electrons in that cathode ray tube were being attracted to that coil for the very same reason that I was being attracted to the earth.

I realized that day that both gravity and magnetism are nothing more than

similar distortions of space-time.

I realized that day that Ampere had discovered, in the 1700s, an essential part of what Einstein was looking for two hundred years later.

The year that I held that RCA indicator in my hands was 1967. I wrote a small 64 page book about what I had discovered and ran a full page ad for it in one of the 1967 Sunday, New York Time's Book Review sections,

Einstein had said, while working on his Unified Field Theory, that looking for this unified field concept was like trying to imagine what a dinosaur looked like after finding only one of its bones.

In my book I mentioned that I had discovered a few more bones. At that time I had not fully understood the important role frequency was to play in all of this nor had I read what Kurt Gödel had said.

Chapter 2

Einstein was looking for a simple answer

And the answer is simple too. Ampere showed us how space-time essentially works. But Ampere wasn't thinking about space-time because he hadn't any idea way back then that space & time were essentially one thing. It took Minkowsky---he was one of Einstein's teachers---to realize this after he saw what Einstein had come up with.

I have a high regard for Einstein and especially for his general theory of relativity. I hope that this treatise shows you approximately how that all works. I will not go into any of that tensor math of Einstein's though. You can get all that you want by searching Google.

Here's essentially what I'm trying to put forth: Once you see that

BOTH the speed of light and the speed of gravitational attraction are the same then that is sending a very important message to you.

It's telling you what's really going on. Here's what's really going on.

You know---at least the intelligent ones know---that we have general relativity and we have quantum theory and string theory. These are all giving you hidden road signs as to the answer that Einstein was trying to find.

Then you have the speed of light being a constant, independent of the velocity of the source and of the observer. This throws Euclidean geometry to the winds but we know it is so. We must accept it.

Now we have one more ingredient added to the stew and that is Perlmutter's finding that this expansion of our universe is accelerating. Others have also proved this so this must indeed be true.

So if you have a universe where the speed of light is a constant and we have general relativity and quantum theory and an accelerating universe to boot then what in god's name could be simple about it?

Simple: the construction principles are simple.

But be forewarned the construction principle for weather is simple too. The principle underlying all weather is that hot air rises. It's the various effects that this finally causes that gets really complicated and with this universe of ours it is exactly the same there too. But once you understand this principle then you will better understand this universe.

Generally when NONE of the so called experts can come up with an answer to something then the answer is generally in a far different direction that all of those so called experts are thinking. It's the answer that nobody thought of. And that is essentially the

answer to this universe as well.

I got into airplanes straight out of high school. I got my college degrees while working for the airlines. So how did this high school kid excel in troubleshooting these complicated airliner electronic systems when these college trained engineers were competing with him? Well I found out early on in the game that one uses Ampere's laws when troubleshooting and not that complicated Faraday-Maxwell concept of what was going on that the engineers used.

You see, you don't need math to troubleshoot avionics. You need something clear & simple. You need something fast. I discovered early on that Ampere's laws were clear, simple and faster than that Faraday-Maxwell monstrosity.

If you want exact quantities than you must go the Faraday-Maxwell route because it allows you to do the math. There is no math for Ampere's laws though. Even Ampere couldn't match any math to them and he was a math prodigy. He knew all the math of his era by the time he was 12.

It was not until after I retired and read Kurt Gödel that I fully understood why I was far better off using Ampere's laws troubleshooting. Read Gödel's Proof. Faraday-Maxwell math is subset math and Gödel warns you never to believe subset math laws. Well, quantum laws are subset laws too. And low and behold even Newton's laws are subset laws and Einstein's general relativity corrections for them are subset laws as well. Einstein collaborated with Kurt Gödel. They were both in the Institute for Advanced Study in Princeton together. Einstein should have listened to Kurt Gödel a bit better than he did.

It turns out that Ampere may have hit upon the only universal laws any human being has ever discovered. And this may well be why he couldn't do the math for them. All our math that we have here right now is subset math for subset science rules. We don't seem to have any math available for Ampere's universal laws.

Once you see that BOTH gravitational attraction and light travel at the same speed then this sending an important message to you to do some different type thinking.

Let's return to what I said a few paragraphs before: When NONE of the so called experts can come up with an answer to something then the answer is generally in a far different direction that all of those so called experts are thinking.

The far different thinking for a universe with all those things we know we have that I mentioned previously is this:

What scientists presently see as the speed of light is something entirely different. It's something no one has thought of: It is really the space-time frame rate.

If you go to the movies these are actually 16 individual pictures or frames every second which you see one at a time but which your mind sees as really happening. I'm afraid it's the same in real life. You have these space-time frames here as well.

I'm not going to go into all the whys and wherefores but if you want to build a universe with relativity, quantum mechanics and all those things previously mentioned then all you have to do is have space-time produced for you by BOTH the quark and the electron. All you need is this sub-harmonic space-time interval produced by mixing the quark spin frequency with the electron spin frequency.

Ampere's laws---slightly modified for frequency---then give you a good idea when and where this space-time interval is produced. So here's what you have then:

It's a pretty simple universe building plan.

I told you the principle would be **very simple** and these "A" Laws are. They are also definitely wave-particle laws and therefore subset laws that our subset developed minds can understand and use.

The French may want to call these the **A**mpere Laws and the Germans will call them the **A**ufbau Laws. I'll simply call them the "**A**" Laws.

* The **1st**. "**A**" Law

The space-time interval is *created the LEAST* between any two objects, the closest sides of which "see" themselves spinning or moving on parallel paths in the same direction at the same frequency or a close harmonic thereof. You can also say these two objects will attract each other.

* The **2nd**. "**A**" Law

Both space and time (space-time interval) are created the MOST between any two objects, the closest sides of which "see" themselves spinning or moving on parallel paths in opposite directions at the same frequency or a close harmonic thereof. You can also say these two objects will repel each other.

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Of great importance, in the two preceding laws, is that these laws are frequency laws and they work separately for each separate spin/orbit-frequency level which means these individual wave-particles must "*see*" themselves doing these things from their viewpoint in their local gauge environment. It does not matter how some other spin/orbit-frequency level views these things because space and time and indeed the average space-time interval is entirely different for each different spin/orbit-frequency level.

These two laws look equal and opposite but they are not: The 1st "**A**" law "locks

on" while its opposite 2nd sister law never does. This is because the total force is generally centralized and you can feel this 1st "A" law "lock on" when two magnets come together. These two laws—along with "angular lock on" that comes later—result in limits of aggregation being established all throughout this universe: This is why there are limits to the size of atoms and limits to the size of stars as well.

* The Aufbau or Ampere Corollary

The aforementioned forces, or space-time intervals, between two objects will vary proportionally with the cosine of the angle of their paths and they will have a torque that will tend to make the paths parallel and to become oriented so that objects on both paths will be traveling in the same direction.

Or

All objects that "see" themselves traveling *in the same direction* on parallel paths at the same frequency will attract and/or space and time, at that frequency, between them diminishes.

All objects that "see" themselves traveling *in opposite directions* on parallel paths at the same frequency will repel and/or space and time between them, at that frequency, increases.

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Remember it's the space-time **interval** that is being diminished by the 1st "A" Law and increased by the 2nd and this can be seen as either simply **more space** or **more time** or **both**: Also remember that this perception will depend on the observer's geodesic or path and to you it will seem as if it's always space and never time that is being created or diminished but read chapter **18**.

Remember also that this space and time that is either created or diminished will be altogether different at different frequencies.

As you look at these laws you can immediately see that for each single spin/orbit-frequency this must indeed be a type of steady-state universe exactly as must be seen now that Perlmutter says this acceleration is showing us that Einstein's cosmological constant---a repelling force---is between each star, galaxy, super cluster, etc..

You must keep in mind that your world is only a few of these piano keys and that anywhere you go on this piano keyboard that the lower keys will "*see*" the higher keys performing much like we see our electrons performing with Planck's approach to a solid as frequency is increased and relativity and all the rest of the things we associate with our electron's behavior.