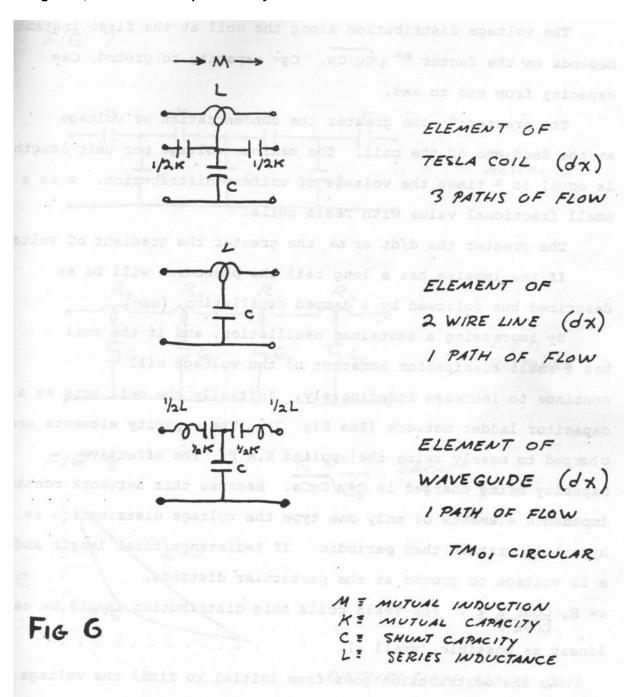
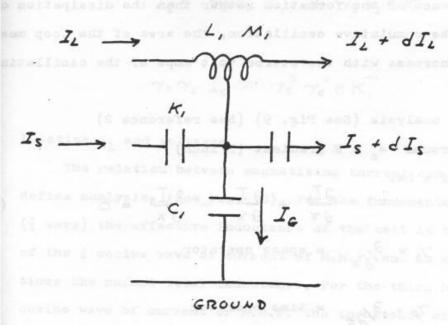
# "The Transmission and Reception of Telluric Waves" -- N6KPH

## **The Tesla Magnification Transmitter:**

Equivalent Circuits of the oscillating coils in the Tesla Magnifying Transmitter. Coils are now waveguides, not coils and capacitors anymore.



# THIS IS BETWEEN WINDINGS IN A TRANSFORMER



LINE ELEMENTAL

dx

$$\alpha = \frac{1}{2} \left[ \frac{R}{L} + \frac{G}{C} \right]$$

#### LC vs MK

- (1) LC, equals, time square, per (radians per second) square
- (2) One over LC, equals frequency square in radians per second squared
- (3) MK, equals frequency square in radians per second squared
- (4) Omega equals frequency in radians per second
- (5) F, equals equals omega per two Pi, in cycles per second

## Size of Planck:

The electrification Q, is a quantum step quantity, an unproven as of yet. One line of dielectric induction, Psi, and one loop of dielectric induction, Phi, in union, give rise to one unit (Photon). Hence an atom of electricity, by "atomic reasoning." This indivisible unit or atom is called a Planck. Atomicists say its size is 6.62 times ten to the minus 34 power. This is known as Planck's Constant. All probability it's in MKS units.

#### **Oscillating Currents:**

This is dividual, since the coefficient current is the discipation of the enemy stored observaturably in the conditions: and higher the resistance of the circuit, the more registly is the energy discipated, that is, the faster the modification disc set.

With a resistance of the sincet; sufficiently how to give a fairly well searchest oscillation, the frequency is, with sufficient approximation.

46. The constants, squarely, C., inductance, L, and manager, L, and manager, L, and manager, L, and manager of the constants, P matters, a numbered of 1 of, half to stand continuously potential of 1,000 ords, in far larger than a 200-with conductor of 200 ml rapacity. The energy which the former is able to store in <sup>2</sup>/<sub>2</sub> = 50 points, while the latter stores only 2 joints with the contract of the conductor of the conductor

and therefore the former is 55 times as large. A mactive of of 0.1 beary inducation, designed to carry continuously 300 xxxperse, storms  $\frac{10}{2}$  – 500 judies; a resention of 0.00 times the industrians. 100 heavy, to be of a current-carrying equacity of 1 acquest, extent 5 judies only, therefore is only about non-hamiltable the rate of the former. A resistor of 1 often, curvely continuously 1500 assumes, in a

is kilowatas or kilovoch-ampena, just as other storteral apparatus, and this rating characteries their size within the limit of chesigs, while a statement like "a condemon of 10 ad." "as "as we characterise the size than a statement like "an absenter of 100 min." "a value of 100 min." "a "a statement like "an absenter of 100 amperes capacity" or "a statement like "an absenter of 100 amperes capacity" or "a transformer of 100 code."

A helic of t vs. It in emolecure can give about 5 to 1 by-samp, at 60 cycles. Hence, 100 ky samp, monitories a very large size of conditions:

ange var or consumer.

In the certifiching condenser discharge, the frequency of oed letters is such that the inductive markanes equals the emislessive machines. The came covered is its best at the same travials reduced. That means that the volt-ampère consumed by the

The bilirroli-supers of a receiver as well as of a receiver are proportional to the hexpercy. Utils invrincing frequency are constant violage ingressed upon the engineer, the carrelt turies proportionally with the bequency, as constant about taking current through the source, the solings seates proportionally with the frequency.

If then at the imparity of seculation, reactor and not denser have the same kn-amp., they also have the same a 60 cycles.

60 cycles. A 100-kv-amp, continuer requires a 100-kv-amp, reactified preventing oscillating currents. A 100-kv-amp, reactified prevention. From the equations of the instantaneous radius of the condense discharge, (48) and (47), fullow their effective values, or V mass equate,  $\phi_{i} = \frac{f_{i}}{2} e^{-\frac{i}{2} \frac{1}{4} T^{2}}$ 

and thus the proces 
$$y_{i}=\frac{1}{2}\frac{\sqrt{2}}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{\sqrt{2}}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}$$
 and thus the process 
$$y_{i}=\frac{1}{2}\frac{\sqrt{2}}{2}\frac{\sqrt{2}}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}.$$

Bookne, would believ that the energy of each decharge

 $W = \int_{-1}^{1} p_{s} dt = \frac{k_{s}^{2}}{2\pi} \sqrt{k_{s}^{2}},$  (6)

79 0,000 in 1,000 in

As seen, with the same klistvid-ampere capacity of conment and of reactive cod, practically any frequency of medkies one he produced, from low reconserval frequencies up to undeed thousands of cycles.

All frequencies between 360 and 2000 cycles, the use of from in the mastive coil has to be motivated to un insure core, and at frequencies advere this irest cannot be used, since hypotensis and with currents would make conserve famining of the selflistics. The reservice oil data becomes largely in size.

66.0. The reactive coil than becomes larger it sim.

47. Assuming 95 per cent efficiency of the reactive in per cent of the conditioner.



 $r_i=2\sqrt{\frac{\hbar}{G}}.$  home,  $\frac{r_i}{r_i}=0.025,$  and the logarithmic decrement of the smillation is  $\lambda=0.02.$  that is, the droaty of the more is very size at no logal.

Assuming, breever, as lead an extensal effective resistance equal to three times the internal meiotance, that is, an else trical efficiency of 75 per cent, gives the total resistance as

besset, 
$$\frac{r+r'}{\tau_i}=0.1,$$
 and the document is 
$$\Delta=0.33.$$

At high frequencies, electrostatic, infractive, and radiation losses greatly increase the resistance, then giving lower offitionery and more rapid decay of the ware.

48 To become a few large free and details force

48. The frequency of oscillation dose not directly depend upon the size of accumance, that is, the bilevolt-appear capacity length of the discharge circuit occurat well be ten thus 10 h, 10 ft, of conductor of lenge six have an industrator of at least 0.000 mb,  $-2 \times 10^{-3}$ , and the frequency of oscillation would identifie be limited to about 0.000 cycles per second, over without easy resulter only, in a straight industrator path.

about as follow:

The minimum length of discharge circuit is the ago between

the continuous pistan.

The minimum resolution respectly is given by two aphrees, since small places give a larger capacity, that to the edges.

The minimum dissector of the orders is 1.5 time their

meaning, note a smaller sphere distincted does not give a rises spark discharge, but a branch discharge precede the spark. With  $s_a = 10,000 \, \text{V}_{\odot}^2$ , the spark gap length between spheres n=-0.2 in, and the distincter of the spheres therefore 0.43 in. The coefficients relevant their consists of two scharms of 0.45 in.

The gives as approximate length of oscillating sites it is, or as industance  $L = \frac{0.3 \times 10^{-3}}{10.00} - 0.125 \times 10^{-3}$  being. The capacity of the sphere, against each other case is

 $f = \frac{1}{2\pi\sqrt{D^2}} = 6.5 \times 10^4$ 

With a frequency of billions of spicles per served, the effective missiance must be very large, and describes the damping rapid that has oscillating spirits of two spicers expansed by a gas small lines to be charged by entirestim, or the spicers charged separately and then benught near each other, or the sphere may be made a part of a series of spicers separated by gaps and summerical arrives a high personal citerat, as in some forms of lightning services.

Herefron it appears that the highest frequency of medication of appreciable posters which was be produced by a combinate lachange machin hillions of cyclin per second, thus is continuely agher than the highest frequencies which can be preduced by introdynamic machinery.

At five hillion cycles per second, the ware length is about to one, that is, the frequency only a few scrame lower than the second frequencies observed as leak radiation or after sed look.

the armage name image it reader aget, 32 × 30° can convergenting to a frequency of 3.3 × 10° system, would require spheres 30° rm. in character, that is, approaching molecula characterism.

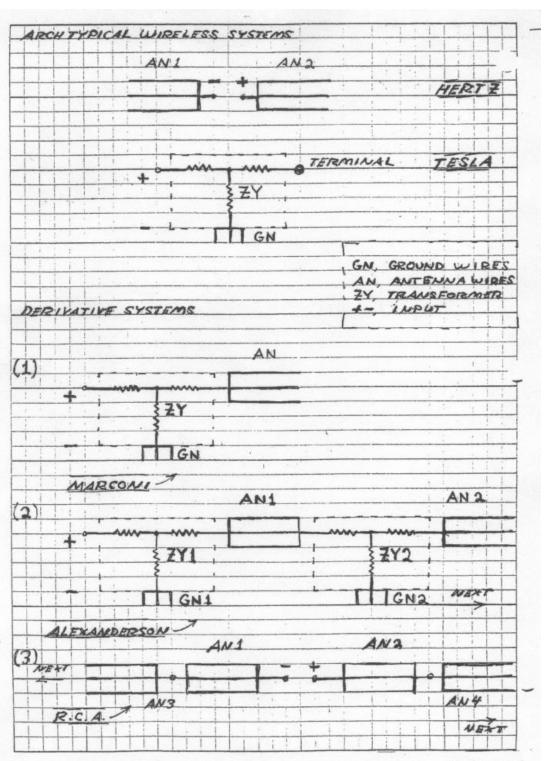
#### ORCILLATING-CURRENT GENERATOR

48. A system of resonant impressed r.m.l., a, charging a condenser C through a ristral of disdomants L and resinance r, with a disdom electric of the conference C recombing as also ma-

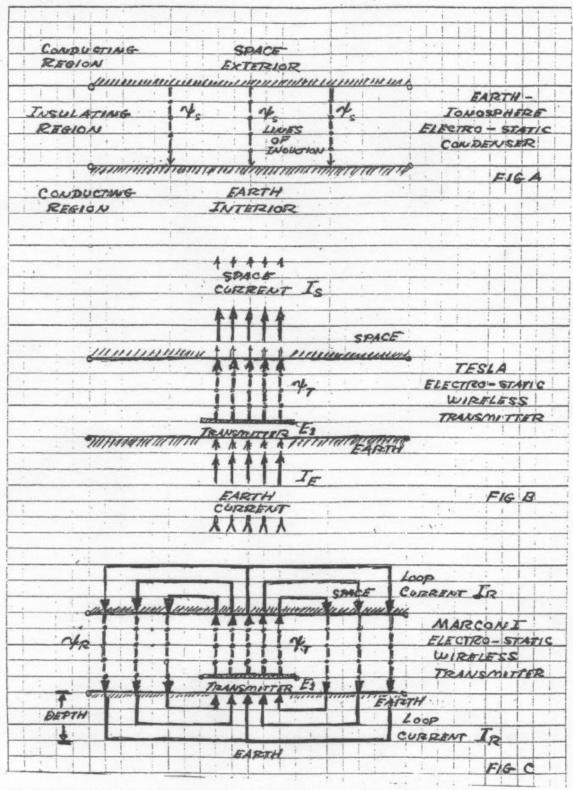


over in the rivesit,  $L_{\alpha} e_{\alpha}$  at intervals equal to the time required to charge conclusive C over reactor L and resistor  $x_i$  up to the

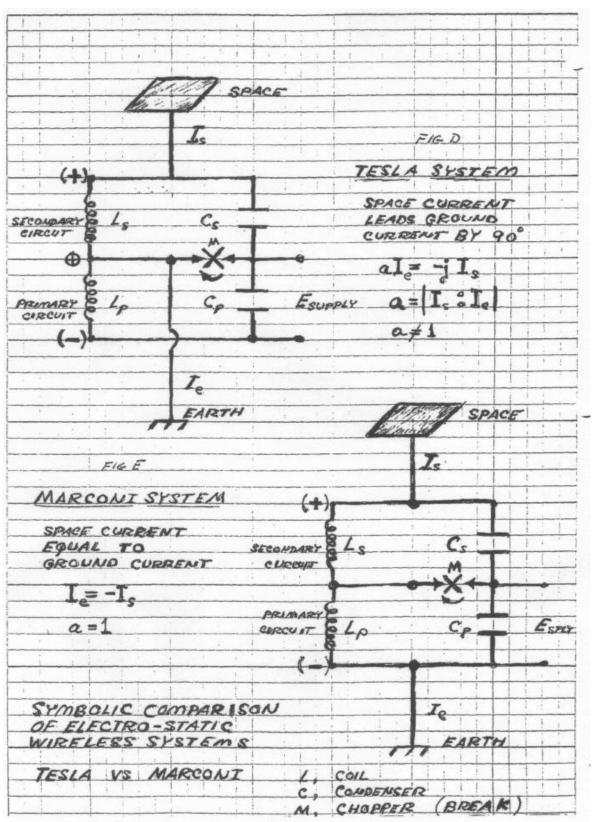
## **The Tesla Wireless Transmitter:**



9-7 Archtypical Wireless Systems (2 diagrams) and Derivative Systems (3 diagrams)



9-8 Three diagrams: "Earth-Ionosphere Electro-Static Condenser." (Fig. A); "Tesla Electro-Static Wireless Transmitter." (Fig. B); & "Marconi Electro-Static Wireless Transmitter" (Fig. C).



9-9 Symbolic Comparison of Electro-Static Wireless Systems - Tesla vs. Marconi

A golden dragonfly rose into the air, La-mare and his "Longitudinal Moon Bounce."

<u>Lamare Lunar Effort Ideas:</u> The longitudinal antennae ideas seem stuck in the mud. Seems everything is quasi E.M. "Electrical Soundwaves in the Aether", Tesla. Only two ways I see; a form of open ended circular waveguide. One mode, hard to excite, is longitudinal. Please post circular waveguide mode chart (Frederich Terman)!!

Another way is a tiny U.H.F. resonant coil, NOT A HELICAL RESONATOR. AN OPEN COIL NOT ENCLOSED IN A COAXIAL CYLINDER. For the circular waveguide the pipe is closed on one end, open at the other end. Open end may require mode stabilizer. The proper mode of excitation is extremely important! (Terman, Radio Engineers Handbook). For the resonant coil, a disk larger than coil diameter at current end, a disk smaller than coil diameter at voltage end. Ratio of disk diameters derived from coil impedance. Excite coil with small loop. As for the frequency, the waveguide must be greater than 1000 Mc, for the coil must be less than 1000 Mc. These would be my first efforts to create electrical sound waves in the aether. The longitudinal waves of my work involves Telluric Waves (submarines) and windings (transformers). Free space longitudinal waveforms may not have any relation to my (MK) waves

#### **Lamare Dialogue:**

When considering waves on coiled windings, leave out the electrons, let us forget them once and for all. They are for electronic devices (RG) NOT for electrical devices (LC).

It is generally considered that any wave must consist of a conjugate pair of energies, magnetic and dielectric let's say. Only then an interaction between time and space is possible. It is through the union of a conjugate pair (L and C) that the dimension of time is produced. The propagation constant is then equal to:

(1) Negative Gamma Square

Having a pair of imaginary roots, plus j Gamma and minus j Gamma

It is however that the J.J. Thompson Longitudinal Dielectric Motions cannot have a periodic solution, there is one energy only, dielectric. This needs to be resolved.

There are four distinct forms of energy stored in a winding, Magnetic Pair:

L, Leakage Inductance, Henry M, Mutual Inductance, per Henry

Dielectric Pair:

C, Leakage Capacitance, Farad K, Mutual Capacitance, per Farad

The Magnetic Distribution along the coil axis is given by

(2) Epsilon to the square root of LM power. It is an exponential curve along the axis.

The Dielectric Distribution along the coil axis is given by

(3) Epsilon to the square root of CK power. It too is an exponential curve along the axis.

LM and CK are time scalars hence it can be seen that these initial distributions at t = 0 give rise to complex energy exchanges because of the exponential space distributions. We have now a fourth order differential in space and time. Alice lands in Wonderland. . . .

#### **Lamare Discourse Continued:**

Continuing with the four energy co-efficients:

LC, this gives the space scalar frequencies of oscillation, having no distribution in space, only in time (dot product)

MK, this gives the "Tesla Vector" normal to the coil windings, a counter-velocity in per centimeters per second. (axial product)

Also,

L/K this gives the clockwise "Poynting Vector" around the circumference of the coil windings, a velocity in centimeters per second (cross product)

C/M, this gives the counter-clockwise "Poynting Vector" around the circumference of the coil windings, a velocity in centimeters per second (cross product)

(4) Hence  $(LC + MK(k^2)) + k(L/K - C/M)$ 

(5) a + kb

The Heaviside relation for the dimension of space. For the condition of balance,

(6) L/K = C/M

The T.E.M. component vanishes and the "Poynting Vectors" cancel out. The resistance of the coil also cancels out giving rise to a very great magnification factor, as well as a pure longitudinal wave, a "Tesla Coil."

It is my belief that we have outgrown Maxwell. The path started by Tesla, through Steinmetz and Alexanderson, to L.V. Bewelly has taken us far beyond the primordial physics interpretation of J.C. Maxwell. The Bewelly-Dollard Theory has made it obsolete. Leyden Jars and scales have grown to giant substation transformers and high speed oscilloscopes. We are entering a brave new world of electricity, electricity without electrons.

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At this point I shift my writings from rudimentary ideas to reproducible engineering with the "military minded" aim to initiate within this "Energetic Forum" the "First Tesla Telluric Transmission in history." A perfect compliment to La-Mare's efforts.

The Objective:

(9) International Ham Radio Contest to disprove Einstein's Theory.

Ultimately my primary objective is to continue my work started at Landers, that is;

(10a) Develop a superior submarine communications system for the United States Navy.

(10b) Adapt system principles to a system for Advance Seismic Warning (A.S.W.). This for the City of Los Angeles Dept. of Water and Power.

These systems were completed at Landers by the way, in a completely engineer-able form. The product of 30 years of work. (See pictures of the site on the American Marconi Website)





None of the work at Landers was ever intended to be released to the public, this station was for government use only. But the "Legal System" gave it to Bales. It has come to pass that it is being sold off a chunk at a time on e-bay. Homeland Security. Let's Hope Israel gets some of it and turns it into weapons of mass destruction. Providence plays these jokes now and then.

For a basic description of my work at Landers, see Dollard, E.P., "System for the Transmission and Reception of Telluric Waves." The engineering embodiment at Landers took the work of Tesla and Alexanderson to the next level, and being a Naval development will not be demonstrated or discussed on my part. However, even the weak minded may have noticed that I am giving complete engineering instructions on Tesla's Telluric Transmission System, as he envisioned it. I am speaking to what I suspect may be a "silent majority." And I know that any competent radio engineer or experimenter can make a go of it. . . .

73 DE N6KPH

For those who have no knowledge of resonance, etc., you must work to gain that knowledge.

Here is how you do it: find a "Radio Amateurs Handbook", around 1960 – 1965 edition. Read it, and make a crystal A.M. broadcast radio. When this is done then I can answer any questions, not beforehand. You must do the work, not me. And we need more La-mare's, those who experiment with ideas and materials.

#### **The Primary Circuit First:**

A global contest, who will be the first HAM radio operator to disprove Einstein? Will it be you?

We begin with the "Primary Circuit." It is a parallel resonant circuit. This exists in the dimension of time, it is space scalar. Hence no T.E.M., etc. Tim only in Neper-Radians per second. PER SECOND. It should be noted that no generalized analysis of this circuit even exists today, so where do YOU want to begin. I will tell you how, get a 1960's Radio Amateur's Handbook, and read it. Then make a 100 watt 80 meter transmitter. Then you can begin to understand Tesla.

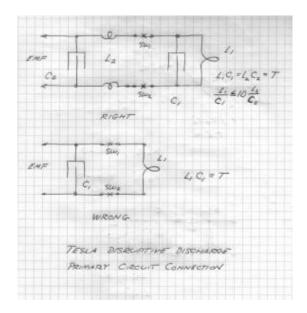
The circuit I have shown is from the Colorado Springs Notes, read this for circuit values, these can be scaled. The reasoning here is that no resistance is wanted in the main tank circuit (L1,C1), it must be tight against leaks to assure maximum magnification factor. The Auxiliary Circuit (L2,C2) is an impedance matching network to carry energy from the supply E.M.F. to the tank circuit M.M.F. The energy in L2 C2 refracts into L1 C1 so as not to disturb the primary M.M.F. This M.M.F. to be maximized to the highest possible magnitude.\*

\* See Nikola Tesla, "System of Concatenated Tuned Circuits", patent number unknown

Here is how the contest works. We learn how to make a "Crystal Set", just as everybody should. It is a "Rite of Passage". A crystal set is an A.M. radio that uses no battery, the magnification factor of its tank circuit powers the radio. Hence it can be seen that the A.M. broadcast station's transmitted energy is powering the crystal set, JUST AS TESLA ENVISIONED. Wow Mr. Wizard that is fantastic. Let's start today.

[INSERT "CRYSTAL SET" SCHEMATIC HERE]

# **Supplement to Intro to Tesla Transformers:**





Pro 198

# From Radio Engineers Handbook: Tesla Coil geometric configuration:

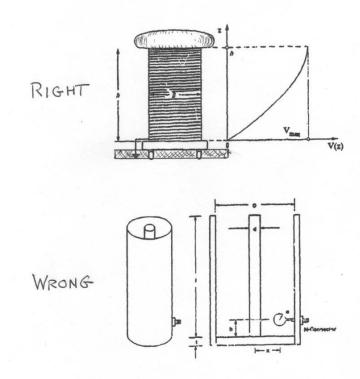


Figure 3. (a) Tesla resonator with voltage distribution. (b) VHF resonance transformer

## The Oscillating Current Transformer, "Metrical Dimensional Relations of the Aether" by E.P.Dollard

# **Internal Obstruction and Superficial Conduction (Heaviside EM Theory):**

is a particul inferious, for our thing, which clies is since by at reviews with popular motions regarding condution. But it is since a particul conductor likewilly, though two. But it is since a particul conductor likewilly, though it is different more in that consumpty understood, then have been papear in important a part in the fine-important in the last papear in important a part in the fine-important in the standard consumpty of the consumpty of the conductor of the conductor are all developed to the particular particular sized there is not no elektron to take in the older of a contant of the consumpty of the conductor of the conductor of the consumption of the constraint of the conductor of the constraint of the reasoning they which the functions of conductors below howmounts furth here as of ellicative particular particular to the constraint of the conductor of the constraint of the conductors with force particulars in non-montal, it sat that much conductor with twee particulars in non-montal, it sat that much be contained by the conductor and increased obstruction. For the all sandalized particulars with projections of most difficultyrecturalizing elements. If you have pot surprising new, in the interest of the conductor of the conductor of the contained of the conductor of the conductor of the contrained of the conductor of the contained on the conductor of the contained on the conductor of the contained to the conductor of the contained on the conductor of the conductor of the contained on the conductor of the contained on the conductor of the contained on the conductor of the contrained on the conductor of the contained on the conductor of the contained on th substituted much harder things. This may also have no passessionistic projections on substreamed them, and the Tonggarsen are laten into the world with more advanced ideas, at the source, Them some fine 6 quick charter, If Frys to baught the Calculate to the animal Diffuser per would no harder the source that the charter to the in a source due when the Frysh and all. Calculate may what is breather sourced on an animal and much Calculate to, when it would not make an animal and much Calculate may what is to begin an animal and much an animal and much a first employing one in more. The imagine being in to longer newly, and much appearing the 30 great of the Calculate may be an in more. The imagine may be also be passed to 30 great. New with Quantum in 18 in the 18 in animal the shall be some ... Of some, where the the Handison-Test upones, where you have to the limit and much appearing that one where you have to the Handison-Test upones, where you have to the source to be anneal to the world on the source to be an in the passed on the source to be anneal to the world on the passed on the Handison-Test upones, where you have not declared to be anneal to the manufacture to the some that is some that when the source that the some that the source that the some that the source thas the source that the source that the source that the source tha

quaternium, and idea for spears is supported.
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amending to Office for the sizes, a perfect medicator ishould 5
amending for the view in the sizes of th

The Effect of a Furfact Conductor on Enternal Staturis name. Bedeeting and Conductors of Waves.

§ 190. The condition at the interior of a parket conductor and a distorte see that the electric force in the distorter has no negacital congruent and the magnetic induction as normal community.

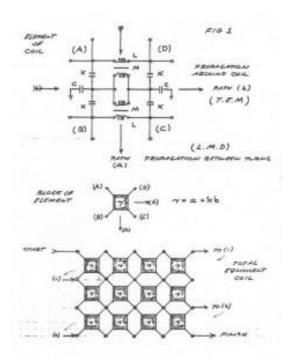
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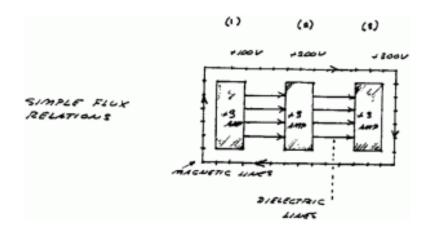
If S is the unit nemed from the medicate. Thus, who there is clearly form at the borology it is notice; amount with clearfidation to match; and if there is magnetic force is a swincy tangential, with cleater count to match. Both describings and rement on report int. The displacement measures the relates heating or of the ton, and the magnetic from that of the others are a then.

- ND, 6- TRM

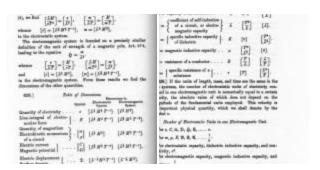
is manufactured, where they are not artifactly to measure and as a required in the I.S. symme of cults, of ments in terminally. R. then, we have electromagnetic distribution option in a dislately contacting a perfect confinery, the latter fact of all is first from distribution, not next mome make we facted weren as in sendidate the temperature of the state of the contacting of the above town and the contacting of the nagarito force.

on industries that to freeign services in to each do it in the many





#### (5) Maxwell's Original Dimensions:



I think it's time that Maxwell's dimensions get changed to something more suitable for Electrical Engineers. This I have already presented. As did Steinmetz, I think we really need to go beyond Maxwell, not deeper into it. That can only lead to Relativity.

73 DE N6KPH

#### **Mass Free Electricity:**

I maintain the pounds per square inch has absolutely no relation to capacitance whatsoever, in the world of electrical engineers. Hence it is absurd. To quote E.H. Armstrong, "They substitute words for reality, and then talk about the words." This is what physics has done. In Electricity, the ideas og Goethe and Wilhelm Reich are much more in accord with electricity, and the formative forces in general. Newton was a materialist and his physics represents an impediment to the understanding of electricity. For those married to "Little Ball Bearings", this is why we have the Planck. Here you can have your beloved E equals mc squared which is so dear to your heart. So use it, don't heap capacitance and inductance with lead weights.

The Aether does not relate to the inertial laws of Newton, but the formative forces laws of Goethe.

#### Heaviside; Adagio, Andante Alegro Moderato, p. 1-3.

The Aether is a genie in a bottle, it beckons your command. Tell her what you want her to be, and that she will become.

We start with the Faraday contigious particles, the Maxwell's cellular aggregates, Babbitt's Vortex Swirls, Tela's Gas, Heavisides Rotational Model of Variable mu and epsilon, and the blockheaded solid Aether theory. She is all, she is none. Einstein holds the cork in the bottle, the Quantum Mystic seeks a Pandora. What a choice.

My efforts in 6 months of writing here are directed to the practicing Electrical Engineer, not the Quantum Mystic. You were given the Planck as a way out of the Quantum Godess's trap. But she exudes such sweet honey. Engineers do not want Quarks in their capacitors.

There are some dogs that keep eating fecal matter no matter how many times they get kicked in the head. Steinmetz provided, among many other important concepts, three terms:

- 1. Magnetic Field
- 2. Dielectric Field
- 3. Electric Field

The Electric Field is not thet Dielectric Field, it is not interchangeable, the electric field is the Planck.

Please keep the Quark out of the condenser. There are "less delicate" ways of saying this from a rear end versor position. Capacitance is a metrical dimension, and so is inductance. They are dimensions of space separated by the dimension of time, no more than that, metrical dimensions.

Pounds per square inches as a Farad is obscene. Let us take a dynamical analog, my Corolla. It operates though 3 distinct forms:

- 1) The inductance, the body of the car
- 2) The capacitance, the tires of the car
- 3) The conductor, the road on which the car stands

And since the conductor has resistance, the electrons are that part of the road(the conductance) which wants to move with the tires(the dielectric).

The tires are capacitors, and are rated as such. Three factors present themselves:

- 1) The geometry of the tire
- 2) The pressure contained
- 3) The deflection through which the weight of the car pushes the wheel to the ground

The geometry is the capacitance of the tire 9×10 to 10 to the third centimeters cubed.

The pressure is the voltage of the tire, 44 P.S.I., voltage max rating.

The deflection is the charge or displacement in per c.m.

One way to make pounds per square inch capacitance is to say the pressure contained is the permittivity of the capacitor since the deflection is the result of the weight, or force of it, which then is the applied voltage.

Remember equating the Laws of Physics to the Laws of Electricity can be very misleading and is the principle cause for misunderstanding.

- (5) . . . Oliver Heaviside's Telegraph Equation, . . . BECAME THE FOUNDATION FOR LONG DISTANCE TELEPHONY IN AMERICA (A.T.T.). More so, Heaviside's Telegraph Equation and related operational calculus serves as the cornerstone of American Electrical Engineering. The full potential of Heaviside's work has not nearly been reached, and it's application to the transmission structures of Tesla could result in a tremendous new understanding of electricity. . . .
- (6) Pump them scalar waves, smash them dipoles, capture that back E.M.F. . . .

#### From "An Elementary Treatise on Electricity", by James Clerk Maxwell

This does not be related to the price of the

Heaviside Vol II, Page 533

APPENDIX G.

SOTE OF THE RESPICES OF A CHARGES BODY AT A SPECIAL RESPICE OF THE PROPERTY.

A SPECIAL RESPICES OF A CHARGES THAN THAN THAN THAN TO CHARGES THAN THAN THE PROPERTY.

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in quantum. Thinks It is neither distribution and it will all man plats, the was the other entired behind for shorps, and its modular godd-half scrattle in the holy by the displacement. (Fully worsted that assemples of the Boury would be to be proposed, in the benefit place, and must be proposed.)

This makings of the desplacement to be left limited as the length growth is the first state of the superconditions of the length growth is the first place of the length growth is the first state of the length growth assembly, as it were, i.e. the approximate result it represent its after a contained growth gro

- 1) I am an Electrical Engineer
- (2) Einstein says electricity does not exist
- (3) So what can I say? It is that basic!

This is why I wrote the "Theory of Anti-Relativity." It is in the thread "Peter whatever happened with Eric P. Dollard?" It will make any Einsteiner's blood boil, you can rest assured of that. To quote Nikola Tesla; "Todays scientists substitute mathematics for experiments and they wander off through equation after equation and eventually build a structure which has no relation to reality." Such is the "Theory of Relativity".

... Tesla said exactly what is required as a basis for his efforts. Something as simple as the "Extra Coil" is an Alice in Wonderland for the Engineer, but it seems just a simple coil. Over the years I have provided a basic engineering structure by which to engineer Tesla like systems, as he said they must operate.... I have [cited] every book, paper, lecture, etc. from Tesla's era. Remember that Tesla stands as a monument to his era, with a solid foundation upon the efforts of his contemporaries. Tesla was a product of his time, so go back to it and learn.

See also, ElectroMagnetic Theory, Oliver Heaviside, Vol 1, "Introduction", Vol 2, art 223, art 224, art 225, and art 226. p 1-12 "Mathemati cs is an Experimental Science", Vol 3. 73

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