

From Ted Newman
(Note Address)

113 New Haw Rd

ADDLESTONE

SURREY

KT15 2DA

(1)

? 1/5/88?

Dear Ivor,

I take Wireless World from time to time - but not always. I have read with interest much of the stuff against and for Theory H. I am surprised at the current nonsense written by much of the opposition.

anyway I thought I'd play with using theory H on all sorts of peculiar delay line configurations. - just for fun. Some led to ~~peculiar~~^{strange} results - but the ~~peculiar~~ strange results turned out to be experimentally correct.

It is obviously stupid when dealing with pulse work to use Fourier transforms - that was clear to me long before I met you. It was quite clear to A.D. Blumlein - who I believe to be one of the greatest

It is not quite so clear - however - if one is dealing with signals that are - at least & very like - sine waves

The problem I now ~~do~~ have is that of dealing with aerials - with radiating devices. I am not finding it easy to use Theory ~~H~~ to calculate the properties of aerials. It is just for an intellectual exercise - but I would like to make it. Any suggestions?

I think, on reflection, that I am not too clear about Theory ~~H~~. Before expanding on this I might say that - since returning - I have studied a lot of Philosophy. I had an idea for concocting "intelligent programs". But the question is what is thinking any way. So I thought philosophy might help. I don't of course. In practice - it seems to me - Philosophers tend to start with a belief - and then to "prove it" by finding a suitable set of postulates from which - by using logic - they can prove it.

The trouble is that logic is tautologous -
empty. The postulates that can be
used - given logical analysis - to "prove"
the belief are in fact only another form
of the belief. Mathematics is a branch of
logic!!.

Back to Theories A and H

The ~~are~~ apparently simple difference is

- A Electric Current causes T.E.M
 - H T.E.M causes Electric Current
- But may be - in a sense - neither
causes either.

I believe that what you believe
is that all is Energy - and that ~~Energy~~
T.E.M is Energy flow. What is clear
is that T.E.M can exist without current

I am a bit worried about the T.E.M
(transverse ~~electric~~ electro-magnetic wave)
I would rather call it E.F for energy
flow.

What it seems to me that it implies is

- 1) There is energy.
- 2) That energy is dynamic, i.e. that when energy is trapped - say in a condenser - it is flowing to and fro.
- 3) That ~~an area with current~~ a conducting material is itself a form of trapped energy.
- 4) That energy reacts with energy.

Item 4 is difficult, in that when two EF beams coexist in the same free space they do not interact with each other.

I believe you believe that space itself (whatever that is) takes on different forms, and that EF behaves differently to different forms of space. i.e.
EF (TEM) interacts with changes in the forms of space.

Yours etc

Ted Newman

P.S. With the aerials - I am a sequence of pulses - the problem I have is calculating transmission efficiency, and beam shape, using only the properties of EF - TEM, as with the delay line case.

D. D. 00

Ted Newman,
115 New Haw Rd.,
Addlestone,
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Dear Ted,

Thank you for your letter of around 1.5.00.

I haven't persisted sufficiently as much as I should have after all the times you spoke for him to me.

I suppose that I'll be like you after retirement, when I should be contemplating the sunrise or the tulip, I'll still plug away at e.m. I like your last four points, nos 1 to 4, on your last page, best. I wonder whether you kept a copy. I'll repeat them here.

- 1 There is energy
- 2 That energy is dynamic, i.e. that when energy is trapped - say in a condenser - it is flowing to and fro
- 3 That a conducting wire is itself a form of trapped energy
- 4 That energy reacts with energy.

These four are good statements of parts of my position. I also go along with your further statement;

I believe that you believe that space itself (whatever that is) takes on different forms, and that LF behaves differently to different forms of space i.e. LF (TEm) interacts with changes in the forms of space.

However, this last item I would modify somewhat. I have absolute space, all with fixed velocity c and fixed impedance 377. However, ~~xxx~~ if some space contains a crystal (which is a trapped, standing (wave) array of energy currents (what you are calling LF), then that space appears to be a space with a slower c and a lower than 377 impedance. So all space is identical, but the presence of a crystal can make the space accomodating the crystal appear to be space with modified impedance and velocity.

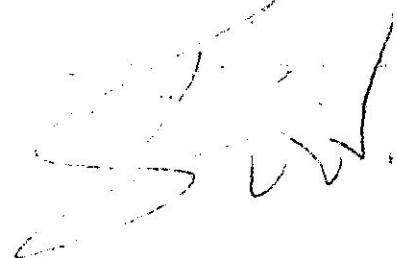
Your previous ~~xxx~~ point (4) points to the frontier of our knowledge. we know very ~~f~~ well how two energy currents (TEm waves) interact when they collide frontally (- they hardly interact at all; superposition applies largely). However, we seem to know nothing about how two energy currents interact if they collide at an angle. The information was presumably presumed to be in Maxwell's Equations, but it is not. We just do not know. Experiments could be performed in this area, but support to this most important research will not be forthcoming.

~~xx~~ Turning to the aerial. (The charge on a cloud, leading to lightening, is a trapped oscillating, vacillating, wave of energy current in the space between cloud and earth.)

Near an aerial is a standing, or reciprocating, wave of energy current. This interacts with the standing wave on the receiver aerial. However, since we do not know how two energy currents colliding at an angle interact, we are stalled at this point, until the decisive breakthrough is made. As I said before, there is and will be no funding or other support for this work for a number of decades. The whole subject is totally blocked throughout the world. I will not do the experiments without funding. The trouble is, it will take decades before it comes to be accepted that Maxwell's Equations ~~xx~~ give no information on this issue.

If I delay this letter until I've said all I want to ~~say~~ say, it will not go off for some months. Better to fire off this ~~xx~~ little bit right now, to show willing.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Catt-Newman". The signature is cursive and somewhat stylized, with the first name above the last name.

Postmark
8 Feb 1990

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Dear Trevor,

many thanks for the stuff you sent me. Very interesting.

I presume you are involved with Wafer stack from amatac - once you invented it all! May it be a rewarding success.

The supercomputer looks to be very interesting. Good luck with it

I should have written to you earlier but I wanted to think a bit. I've written a lot - but I'm not satisfied with it. I've decided to put it on my ~~new~~ computer so I can change it more easily.

I was given Faraday's Treatise on Electricity & Magnetism in 1935 (Clerkenwell & Mayhew) - and I've re-read it. I expect you have read it. If not - The book is claimed to follow (roughly) Maxwell's Treatise

Team where it's always Research & Invention
over writing for the 'fully equipped with references'
~~where~~ his former book was for the student they need
of history Ruth M. L. Elizurah.

The first de publication is fully accepted.

Mr. Stetson, I hope you and I could agree
and I'll recall if many of your suggestions
would.

I think the playing with words and doing
more graphics at schools is the best one
out of much worse ways and a dangerous
protection against?

The members of all of the time
that she could do with of paper, he will
have to care.

Yours truly

John Anderson

A) Hard and soft discipline. I've written a lot about this but will send it when what I've written says what I want to say!

B) I think it would be easier to get ~~practical~~ practitioners p.1 engineers on your side than university ~~lecturers~~ lecturers. They could then be outflanked

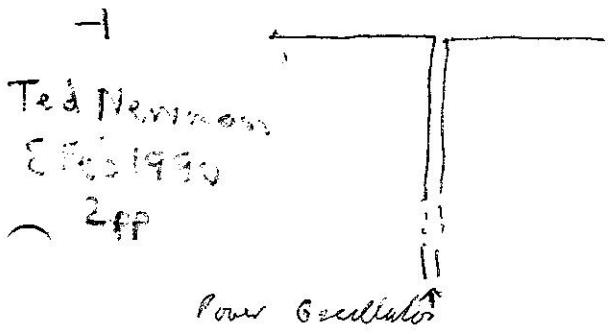
Electronic Engineers - in my view will design by guess and by god - or else they calculate using computational methods based on your ideas of thinking. Blumlein did not follow your theory directly but he did use design methods, ~~would~~ handle more work, and deal with design issues in almost exactly the same way as you would. That stuff (and hence Maxwell's) is quite useless for its job.

One might think that ~~radio~~ J and M would be more helpful in the design of aerials and radio communication. But I don't think this is so. I ~~feel~~ believe this area is almost entirely derived by trial and ~~error~~ error. Tough exams are of course used - and it is not really a good way of doing

The question is - could a design system be worked out - based on your theory - be used in the radio communication area.

I would like to see the ~~answers~~ answers on

- Given a feeder and dipole consisting of two wires



a) Blanking state immediately after switch on.

(b) Siable state

? How much TEM is wrapped
How much radiated into space

I've left diameter of wires, spacing etc free
(although results of course depend on sizes)

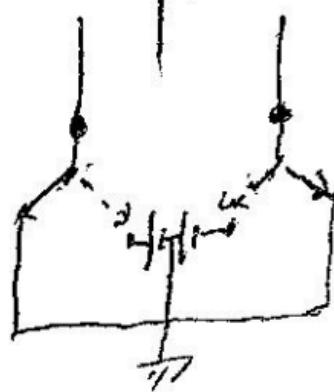
- as I put no overall size. Drive is as below

1400V feed & feed

as I put no oscillations. Drive is as below

~~1. 1st end feeded~~

End of ↑ feeders



2 pole switch

This is the Jeans
Electrostatic case

[although it very]
dynamic

Jeans only gives an end point oscillation
The system is not 'charged' even instantly fully 'charged'
p. 70