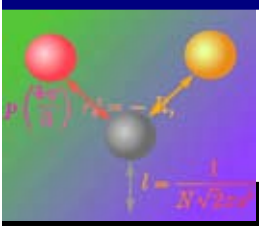


What's the Matter with Matter?

Chuck Parker

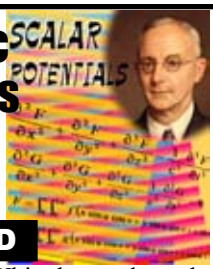
This research arose after reading Tesla's ***Colorado Springs Notes*** and the associated patent wrapper. Tesla stated that the waves propagated during his Colorado Springs experiments were traveling at ***1.57 times the speed of light***. I wondered if there was a model that would explain how this could be?

My search led me to Osbourn Reynolds's *Submechanics of the Universe*. Reynolds had a mechanistic model based on a granular medium. Although not a "Theory of Everything", I consider it to be significant sub-set and a superlative framework for a "TOE". Other researchers, namely Rosenberg and Badur shine a more contemporary light on Reynolds's opus magnus.

Reynolds explains that normal, or longitudinal waves propagate though the emptiness of space at 2.4 times the speed of light. However, the distance of propagation would be limited to several hundred yards. But, through matter the velocity would be lesser and the distance traversed much greater, especially through a dense medium.

Current thought about what has been disputably observed phenomena seems reasonable under Reynolds's model. Faraday's insight relates to such things as Cold Fusion, and the analyses made by Maxwell based on Faraday's work illustrates how fields of electromagnetic force can affect not only space itself but matter as well.

Electromagnetic Scalar Potentials According to ET Whittaker



Thad Mauney PhD

English mathematician E.T. Whittaker undertook a typical mathematical problem – to look at an established mathematical finding from a different angle and see whether it can be re-expressed to reveal new insights. He took on Maxwell's equations for electromagnetism and in 1903 published a paper expressing the electromagnetic field by means of two scalar potential functions. After Heaviside's elegant expression of Maxwell's equations in vector calculus form, and in essentially all subsequent textbooks, the electromagnetic field is expressed by means of one scalar potential and one vector potential. What Whittaker proved is a means to transform one style of expression into the other.

In particular, this mathematical form may help us to make sense of scalar waves produced by some of Tesla's inventions. Researchers including Tom Bearden have alerted us to the possibility that because the scalar potentials are defined at all locations in space simultaneously it may be possible to create interference patterns between scalar waves that could transmit information at energy at arbitrary speed, intensity, and distance.

Here we will discuss how Whittaker's scalar mathematics extend our understanding of electromagnetism, examine what is needed to implement these equations in real-world system, and explore what this means in developing new energy sources.

Nikola Tesla's Electric Car Power Supply --- 2019 ---

Michael Gamble

There are numerous stories about Nikola Tesla's fabled electric powered Pierce-Arrow car. If the stories are factual, then sound engineering should be able to reproduce it. In the past, it was demonstrated that a working demo model could be reverse engineered and built from those stories. The "Series Resonate" system demo model I built and documented at TeslaTech 2018 showed a large increased resonate efficiency (30% to 90%). If the numbers are correct the "Dual Resonate" system I mentioned in the 2018 presentation should do even better. Presently, I have finished the "Tesla Dual Resonate" system detailed design which dramatically increases the "Q" factor.

I know of two ways to increase the "Q" factor of a resonate system. The first method is to increase the reactive component by adding a large (10x) inductor in series with the motor impedance. I built and documented a working "Series Resonate" demo model of this method and presented it at the TeslaTech 2018 conference. The second method is to decrease the real component by removing the motor impedance from the resonate circuit. The motor is now bridged between two out of phase resonate circuits. The preliminary numbers indicate this "Dual Resonate" system should increase the system "Q" factor even more. Tesla stated that his resonate systems ran near unity (99.8%) but not over it!