

## Ethereal Mechanics: Electrogravity



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### ABSTRACT

This paper introduces a coherent gravity model developed by combining an improved model of electromagnetic induction with a dynamic fluidic reference frame called “Ether.” This approach is remarkably simple and demonstrates that the phenomena of weight, inertia and electromagnetic induction are essentially the same thing.

I implore the reader to consider the “Ether” as just an abstraction and to give it the same consideration as other space filling constructs such as “Fabric of space time”, “zero point flux” or “dark matter.” Ether is similar to the Luminiferous Aether of antiquity, except that it is a dynamic model as opposed to the static (or stationary) model which could not be reconciled with observation. This more advanced Ether reconciles nicely with the following:

These models are employed with simulations to show the following:

- 1) Precession of planetary orbits. Example using the planet Mercury
- 2) Planetary orbits decay to circular orbits
- 3) Stellar Aberration
- 4) Why planets and stars orbit in a plane about the central mass and in the same direction
- 5) A mundanely simple model of black holes – they are not actually holes or singularities
- 6) The formation of different types of galaxies – to include the cause of the arms of spiral galaxies
- 7) Where the dark matter is.

Note: This paper introduces a simplified “unary” ether model which treats the medium as a homogeneous fluid. A later paper reveals a “binary” model which leads to a more coherent model of matter among other things. The unary models, along with a simplified model of matter, are sufficient to demonstrate the above listed phenomenon.

Cosmological topics are continued in a later paper titled “Ethereal Mechanics: Cosmology” which includes such topics as stellar cycles, stellar power, Hubble’s law, reddening of light over extreme distance, and conjecture about the final state of the Earth and the Universe.

This is the second paper in the Ethereal Mechanics series, the first paper, titled “Ethereal Mechanics: Transvariance”, supersedes Special Relativity and is freely published (see below). This paper is a derivative work of the paper titled “New Gravity” originally published in 1999. Some parts of New Gravity are rendered obsolete by new material contained herein.

Both Transvariance and New Gravity are published freely at [www.distinti.com](http://www.distinti.com), look for Ethereal Mechanics link on main page

#### Revision History

Version less than 1.0 are draft version for review by Patreon members only



# 1 Introduction

## 1.1 Electrogravity

This paper combines a unique dynamic ether model with an improved model of electromagnetic induction to develop a coherent Electrogravity model where the generation of the field and the coupling of the field are two different phenomena.

Ethereal Mechanics teaches that all field phenomena are resolvable into two parts; the first is the “field,” which is a disturbance of the ethereal medium caused by the “actions” of a “source” particle (or other actor), and the second is the “coupling” of that disturbance to a second particle (“target”) causing the “Force” that is observed. This two part paradigm (Field- Force) is identical to legacy magnetic field models where the B-field is determined from the source currents using Biot-Savart model before the coupling can be determined from a force model such as the Motional Electric Law ( $F=Qv \times B$ ).

The Electrogravity model also follows this two part paradigm. The first part, gravitational field, is caused by the consumption of ether by matter; the reason for consumption is explained later. Ether behaves like a fluid, moving to fill the region of depletion. This area of ethereal motion about the consuming mass is the “Field of Gravity” or the “Gravitational Field”.

The second part, “Force of Gravity” or “Gravitational Force,” is the coupling of the accelerating medium to a target particle. This coupling is effected by an improved understanding (model) of electromagnetic induction. Ether that accelerates relative to the charges that comprise matter produces an induction field that forces other like charges to accelerate in the opposite direction (this is demonstrated later). Because this force asserts whenever there is relative acceleration between an object and the medium, this phenomenon is also the “Force of Inertia”. If a force is applied to an object in free space, the object accelerates. Because the object accelerates relative to the ether, the same induction phenomenon occurs. This provides the simplest unification of Gravity, Inertia and Electromagnetism. The terms Electrogravity and Electroinertia are appropriate but somewhat of a misnomer.

The phenomenon of Electromagnetic Induction has long been misidentified as a magnetic field phenomenon by legacy science, and as an electric field phenomenon by alternative researchers; most notably, Jefimenko [ need reference]. Ethereal Mechanics demonstrates that the phenomenon of electromagnetic induction is a precursory field (explained in a moment) which is more appropriately called the Inertial Field. The Inertial Field is not an electric or magnetic field, because its intensity diminishes inversely ( $1/r$ ) to distance rather than as an inverse square ( $1/r^2$ ) relationship consistent with legacy field phenomena. The precursory fields (Pretonic fields) are the precursors to electric and magnetic fields; meaning, that electric and magnetic field are synthesized from the Pretonic Fields in the same manner that atoms of different substances are synthesized from electrons and protons.

The full release of the Pretonic Fields and the improved models of matter that demonstrates how electric and magnetic fields are synthesized is developed in the paper **Ethereal Mechanics: Matter and the Pretonic Fields** [need reference]. This paper is slated for an Early 2021 release date.

For the remainder of this paper, the more primitive models of New Electromagnetism to include the Hypothetical Model of matter (HMOM) are used. The HMOM is not perfect; however, it is sufficient to show enough behavior of matter to demonstrate the main concepts demonstrated in this paper to include black holes, Time Dilation,  $E=MC^2$ , and other important phenomenon (Many of these are demonstrated in the legacy paper Titled New Gravity which is available at [www.distinti.com](http://www.distinti.com) see Electrogravity page.)

A Gravitational field is a tapestry of ether in different states. These states include accelerating ether, translating ether, shear, divergence and convergence due to ethereal compressibility and ethereal viscosity.

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These concepts, and the language used to describe them, are identical to the study of fluid dynamics to include the manifestation of an irrotational vortex (whirlpool) that appears as a viscous fluid is consumed by a sink (drain). This vortex is responsible for the spiral shapes of galaxies and part of the explanation that replaces dark matter to explain anomalous star motion in galaxies.

Because the gravitational force results only from ethereal acceleration, it represents only one of many forces acting on object in a gravitational field. The gravitational force is the most significant effect in a gravitational field; the remaining effects may require observations over a very long time scale to be detected. Such effects include the perihelion precession of planets and the degradation of elliptical orbits to circular orbits.

The end result of this work is to determine if faster than light starship propulsion is possible and to lay the groundwork for its development. A ground breaking starship propulsion system is not something that will be buildable by a tinkerer in a garage workshop with various configurations of magnets, wires and semiconductors. There are enough tinkerers in the world that something of this nature should have been stumbled upon decades ago, if it were possible. It is expected that there exists an imperceptibly small force that is responsive to electrical stimuli which was missed in legacy scientific evolution. A tiny effect present at the scale of atoms or molecules could be magnified by nano-technology into large coherent effect to create a practical electro thrust system. This concept of cascading tiny effects together to generate significant useful devices is nothing new. Consider that permanent magnets are comprised of elections in atomic orbit. The field contribution of a single atom cannot be measured with simple bench top equipment; however, the billions of atoms with their electrons orbits in the same orientation can produce a powerful magnetic field. Another example comes from the world of semiconductors. The field effect transistor works better when it is made smaller; however, it becomes useless for power applications. Therefore, Engineers array multiple thousands of these tiny devices together to make practical Power FET able to handle hundreds of amps.

New Electromagnetism (NE) has already found two missing components of Electromagnetism from simple bench top experiments. NE provides a more complete accounting of electromagnetic interactions expressible at the scale of bench top experiments. These models, show symmetry and structure representative of a more fundamental set of forces.

## 1.2 Ethereal Mechanics

Ethereal Mechanics covers everything from the construct of matter to the shape and life cycle of galaxies. Because of this broad range of topics, Ethereal Mechanics is comprised of a sequence of main papers and supporting material and simulations. Each paper is centered on a given topic and may significantly overlap other papers. The order of the papers is as follows

### **Ethereal Mechanics: Transvariance**

The Michelson-Morley experiment is explored using a detailed computer simulation to show that Special Relativity is insufficient to compensate the experiment to make it agree with observation. Furthermore, all of the compensations (to include length contraction and "time" dilation) can be explained using Newtonian mechanics and non-relativistic electrodynamics. In fact, it is shown that "Time Dilation" is a misnomer. The slowing of material functions with speed is cause by longer distance that field effects must travel to effect material processes. Furthermore, length contraction results from the reduced field intensity caused by fields that have to traverse a longer distance. Because Ethereal Mechanics shows there are simple, knowable, mechanisms responsible for these material variations due to translation (Transvariances) then workarounds are possible which could usher in FTL travel. This paper is presently available at [www.Distinti.com](http://www.Distinti.com), go to the Ethereal Mechanics link found on main page.



**Ethereal Mechanics: Electrogravity (this paper)**

Introduces the simplified unary Ether model (later papers show that Ether is a binary medium). With these simplified models, the items described in the abstract are covered. This paper and its simulations are presently under development and are expected to be available by June 2020.

**Ethereal Mechanics: New Electromagnetism V5**

This needs more text

**Ethereal Mechanics: Matter and the Pretonic Fields**

This needs more text

**Ethereal Mechanics: Ethonic Fields and Light Propagation**

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### *1.3 The General Flow of this Paper*

The first few chapters of this paper use nothing more than logic, reason and a tiny bit of math to develop a foundation. This enables a reader, who is not mathematically literate, to follow and appreciate the simplicity of the new theory. Toward the middle of the paper, the mathematical models are introduced and applied to simple examples to demonstrate their agreement with observed phenomena as well as their consistency with earlier chapters. The final chapters introduce computer simulations based on the mathematical models to show large scale effects such as the birth of galaxies and the nature of planetary orbits.

This journey begins in chapter 2, where the foundation of science is examined to expose paradoxes, contradictions and mental blocks that stand in the way of forward progress.

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