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The title of this book is Causality, Electromagnetic Induction, and Gravitation and it was written by Oleg D. Jefimenko. This particular edition is in a Paperback format. This books publish date is Mar 14, 2000 and it has a suggested retail price of \$22.75. It was published by Electret Scientific Co and has a total of 224 pages in the book.

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The so-far unanswered question of whether the movements of distance-separated objects are correlated in the way quantum physics requires or whether, according to Einstein, they can influence one another only by mechanical agencies travelling between them at speeds limited to that of light. It is to that still unanswered question that this present compilation of papers is addressed. The editorial approach is unusual in that in order to break the current conceptual deadlock and to encourage true innovation they have solicited inputs which are multidisciplinary. This open-ended venture is therefore perhaps more in line with what was once called Natural Philosophy than with what is currently known as 'Physics'. This is something of a departure for those who say that Physics no longer has anything to do with Philosophy. For there are physicists who believe that their predecessors have accomplished all the really important conceptual work on interpreting natural phenomena, so that there is no longer any call for radical revision in that direction. This leads to a constricted form of the discipline in which the purpose of all observation and experimentation is seen as simply to collect more and more information and fit it to conceptions which are traditionally 'cut and

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dried'. The emphasis is thus on presenting informed and carefully considered descriptions of natural phenomena, economizing as far as possible on interpretations in terms of entities which turn out to be no more than speculative.

Newtons theory of gravitation is the grandest and the most enduring physical theory ever created. Today, more than 300 years after it was first conceived, Newton's theory of gravitation is still the basic working theory of astronomers and of all the scientists dealing with space exploration and celestial mechanics. However, Newton's theory of gravitation has serious defects: it is incapable of accounting for certain fine details of planetary motion; it does not provide any information on the temporal aspect of gravitational interactions; it cannot be reconciled with the principle of causality and with the law of conservation of momentum when it is applied to time-dependent gravitational systems. This book extends and generalizes Newton's theory of gravitation, makes it free from the above defects, makes it fully applicable to all possible gravitational systems, and provides a large variety of methods for calculating gravitational interactions between moving or stationary bodies of all shapes, sizes and configurations. The starting point of the generalization of Newton's theory of gravitation developed in this book is the idea that gravitational interactions are mediated by two force fields: the gravitational field proper created by all masses and acting upon all masses, and the "cogravitational" field created by moving masses only and acting upon moving masses only. In accordance with the principle of causality, the two fields are represented by retarded field integrals, which, for static or slowly-varying gravitational systems, yield the ordinary Newtonian gravitational field. An immediate consequence of the

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generalized Newtonian theory of gravitation developed on this basis is that gravitational interactions normally involve at least five different forces associated with velocities, accelerations and rotations of interacting bodies. The effects of these forces are quite remarkable. Some examples: a fast-moving mass passing a spherically-symmetric body causes the latter to rotate; a mass moving with rapidly-decreasing velocity exerts both an attractive and a repulsive force on neighboring bodies; a rotating mass that is suddenly stopped causes neighboring bodies to rotate; the differential rotation of the Sun is caused by the planets orbiting around it. The generalized theory of gravitation is fully compatible with the laws of conservation of energy and momentum. A very important result of this compatibility is the definitive explanation of the process of conversion of gravitational field energy into the kinetic energy of bodies moving under the action of gravitational fields. The generalized theory of gravitation predicts the existence of gravitation-cogravitational waves and explains how such waves can be generated. The generalized theory of gravitation also indicates the existence of antigravitational (repulsive) fields and mass formations. A cosmological consequence of such fields and mass formations is a periodic expansion and contraction of the Universe. Another consequence is that the actual mass of the Universe may be much larger than the mass revealed by an analysis of gravitational attraction in the galaxies. It is natural to compare the various consequences of the generalized theory of gravitation with the consequences of the general relativity theory. In this regard the following three remarks should be made. First, there are no observable gravitational effects revealed by the general relativity theory that do not have their counterparts in the generalized theory of gravitation. Second, the generalized theory of gravitation describes a

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vastly larger number of gravitational effects than those described by the general relativity theory. Third, numerical values for gravitational effects predicted by the general relativity theory are usually different from the corresponding values predicted by the generalized theory of gravitation; the difference is almost always a consequence of greater complexity and depth of gravitational interactions revealed by the generalized theory of gravitation. Although this book presents the results of original research, it is written in the style of a textbook and contains numerous illustrative examples demonstrating various applications of the generalized Newtonian theory of gravitation developed in the book.

Rudolf Steiner discovered that besides ordinary space there is negative space, or counterspace, which relates to a holistic conception of the world. Steiner suggested that it was important to understand counterspace as a necessary supplement to the conventional approach. This book seeks to relate the phenomena of our world to both space and counterspace, in order to lead to a new scientific understanding. If counterspace is real, then the resulting interplay between it and ordinary space must be significant. This concept is applied to gravity, liquids, gases, heat, light, chemistry, and life. Each aspect is a separate investigation, but the various threads begin to weave into a unified whole. A new concept of time, and indications for a new approach to relativity and quantum physics begin to emerge. Note: this book contains advanced mathematical and scientific proofs which may be too difficult for the general reader.

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Presents an alternative view of science based on the theory of counterspace

The notion of a harmonious universe was taught by Pythagoras as early as the sixth century BC, and remained a basic premise in Western philosophy, science, and art almost to our own day. In *Touches of Sweet Harmony*, S. K. Heninger first recounts the legendary life of Pythagoras, describes his school at Croton, and discusses the materials from which the Renaissance drew its information about Pythagorean doctrine. The second section of the book reconstructs the many facets of this doctrine, and the final section shows its influence on Renaissance poetics. Professor Heninger's magisterial work introduces the reader not only to Pythagoras but to a host of other classical, medieval, and Renaissance figures as well--from Plato and Aristotle through St. Augustine and Macrobius down to Sidney and Spenser.

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