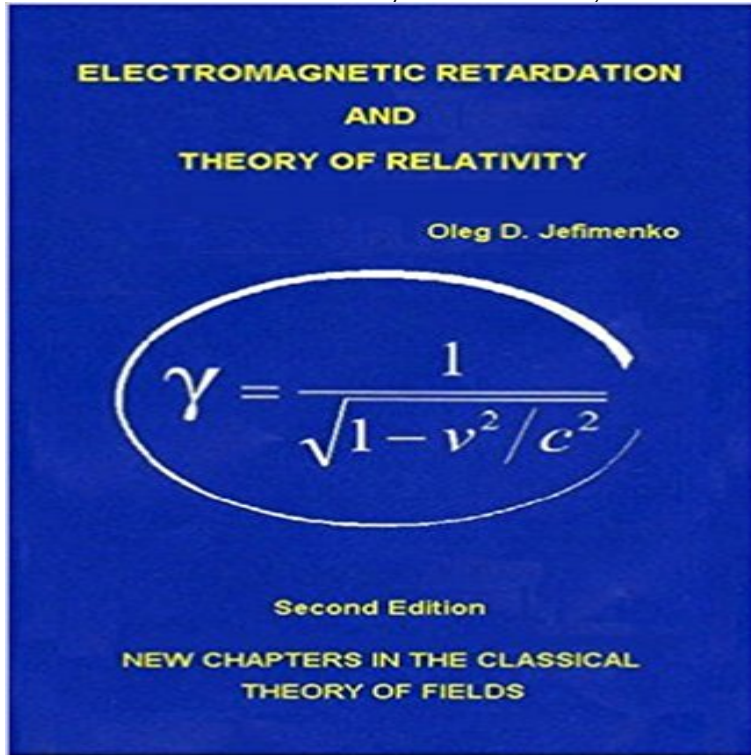


# Electromagnetic Retardation and Theory of Relativity: New Chapters in the Classical Theory of Fields, Second Edition



This book presents a comprehensive exposition of the theory of electromagnetic retardation and offers a significant novel approach to the formulation, development and use of the theory of special relativity. The book is divided into two parts. The first part, Chapters 1 to 5, presents the fundamentals of the theory of electromagnetic retardation with emphasis on recently developed electromagnetic relations and mathematical techniques. Employing as the starting point the retarded electromagnetic field integrals rather than the traditional Lienard-Wiechert potentials and using the newest mathematical methods for operations with retarded integrals, the theory is presented in a clear and logical manner, and the applications of the theory are demonstrated by numerous well-chosen original illustrative examples. As Professor Jefimenko shows, the theory of electromagnetic retardation leads to, and duplicates, many electromagnetic relations that are customarily considered to constitute consequences of relativistic electrodynamics. Much of the first part of the book is devoted to establishing a bridge between the theory of electromagnetic retardation and the theory of relativity. In the second part of the book, Chapters 6 to 11, all the fundamental equations of the special relativity theory, including equations of relativistic electrodynamics and mechanics, are derived in a natural and direct way from equations of electromagnetic retardation and from electromagnetic force and energy equations without any postulates, conjectures, or hypotheses. As a result, the theory of special relativity acquires a new physical and mathematical base and becomes united with Maxwellian electromagnetism into one simple, clear, and harmonious theory of electromagnetic phenomena and mechanical interactions between rapidly moving bodies. Numerous well-chosen

original illustrative examples demonstrate various applications of the relativistic electrodynamics and relativistic mechanics developed in this part of the book. The new approach to the formulations of the theory of relativity presented in this book makes it necessary to reexamine the conventional interpretation of some of the key aspects of the special relativity theory. One of the most significant results of this reexamination is that, although the idea of Lorentz length contraction played an important part in Einsteins approach to the formulation of the theory of relativity, this idea is not an integral part of the theory of relativity itself. Another equally significant result of this reexamination, based on an analysis of a dozen elementary electromagnetic clocks, is that the rate of the moving clocks depends both on the velocity and on the construction of the clocks, so that although all the clocks examined in the book run slow when in motion, only some clocks conform to Einsteins time-dilation formula; others do not. Finally, the novel approach to the formulation of the special relativity theory developed in this book leads to the conclusion that gravitational phenomena are subject to essentially the same relativistic relations as are the electromagnetic phenomena. Based on this conclusion, a covariant formulation of Newton-Heavisides gravitational theory is developed and presented in the last chapter of the book. An Appendix to the book contains an analysis of the physical nature of electric and magnetic forces and presents a novel interpretation of the near-action mechanism of electromagnetic interactions.

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