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# Electrodynamics

Edward Ramberg



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Lectures on Theoretical Physics provides an overview of the fundamental principles of electrodynamics. It presents biographical notes on several scientists, including Michael Faraday, James Clerk Maxwell, Heinrich Hertz, and André Marie Ampère.

The book is comprised of four parts encompassing 38 chapters. Part One explains Maxwell's equation as an axiomatic basis, in the coordinates and in differential form, but in integral form. Part Two discusses the various classes of phenomena in stationary, quasi-stationary, static, and rapidly variable fields. It also distinguishes between summation and boundary-value problems in electrostatics and magnetostatics. Part Three presents the four-dimensional form of electrodynamics as the basic introduction to the theory of relativity. It also considers the fundamental link between the dynamics of the individual electron and Maxwell's theory. Finally, Part Four deals with the electrodynamics of moving media.

This book is a valuable resource to scientists, researchers, and individuals working in the field of theoretical physics.

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