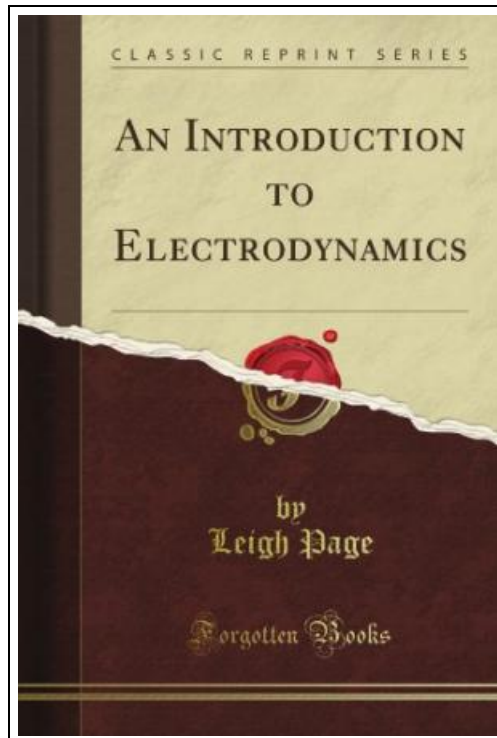


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Forgotten Books. Paperback. Condition: New. 146 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. The object of this book is to present a logical development of electromagnetic theory founded upon the principle of relativity. So far as the author is aware, the universal procedure has been to base the electrodynamic equations on the experimental conclusions of Coulomb, Ampere, and Faraday, even books on the principle of relativity going no farther than to show that these equations are covariant for the Lorentz-Einstein transformation. As the dependence of electromagnetism on the relativity principle is far more intimate than is suggested by this covariance, it has seemed more logical to derive the electrodynamic equations directly from this principle. The analysis necessary for the development of the theory has been much simplified by the use of Gibbs vector notation. While it is difficult for those familiar with the many conveniences of this notation to understand why it has not come into universal use among physicists, the belief that some readers might not be conversant with the symbols employed has led to the presentation in the Introduction of those elements of vector analysis which are made use of farther on in the text. Chapter I contains a brief account of the principle of relativity. In the second chapter the retarded equations of the field of a point charge are derived from this principle, and in Chapter III the simultaneous field of a moving charge is discussed in so. In the next chapter the dynamical equation of the electron is obtained, and in Chapter V the general field equation is derived. Chapter VI takes up the radiation of the electron and Chapters VII and VIII contain some electromagnetic equations to materialize their illustration of the theory as a whole. (Typographical errors above are due to OCR software and do not occur...)



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