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The Theory of Electrons: And its Applications to the Phenomena of Light and Radiant Heat

By H. A. Lorentz

Dover Publications Inc., United States, 2011. Paperback. Book Condition: New. 2nd. 229 x 152 mm. Language: English . Brand New Book. Based on a famous course of lectures delivered at Columbia University by Nobel laureate H. A. Lorentz, this 1915 work remains remarkably modern. Its outstanding discussion of general principles and experimental facts keep it vital, and 109 pages of notes offer detailed examinations of the mathematics involved. Beginning with Maxwell's electromagnetic equations, the author discusses the emission and absorption of electromagnetic radiation, the theory of the Zeeman effect, the propagation of electromagnetic waves in bodies composed of molecules, and optical phenomena in moving bodies. Additional topics include Huygens principle, Stokes's theory of aberration, the velocity of light in a moving medium, Fresnel's coefficient, Michelson's experiment, moving electrostatic systems, molecular motion, general electromagnetic equations, and Einstein's finding about the principle of relativity.



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