



Electric Waves: Being an Adams Prize Essay in the University of Cambridge (Classic Reprint)

By Hector Munro MacDonald

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Electric Waves: Being an Adams Prize Essay in the University of Cambridge The following essay was undertaken with the object of discussing the possibility of obtaining directly from Faraday s laws a consistent scheme for the representation of electrical phenomena, and of applying the results to obtain the quantitative relations which exist in certain cases of the propagation of electrical effects. Maxwell s memoir on A dynamical theory of the Electromagnetic Field, communicated to the Royal Society in October, 1864, marks a new departure in electrical theory. In it the analytical representation of Faraday s laws is systematically developed and applied, as also the analytical formulation of the electromagnetic theory of light which had already been proposed by Faraday in 1846; but these contributions to electrical theory, though of great importance, are subservient to the main object of the paper, which is to shew that the laws of electrical phenomena obey the same general principle as the laws of mechanics. It has not been sufficiently noticed that Maxwell presented his theory under two forms, in...



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