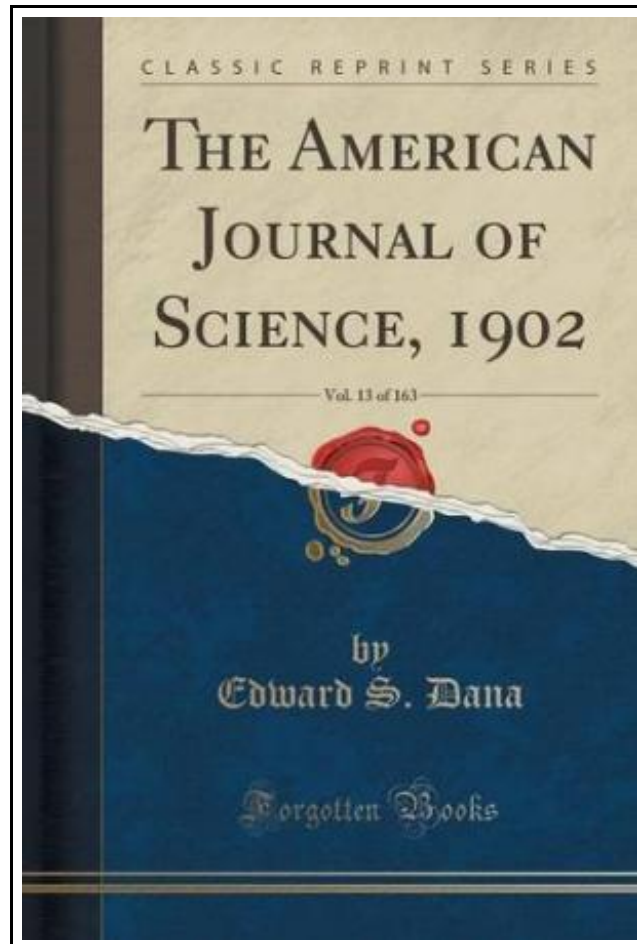


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The American Journal of Science, 1902, Vol. 13 of 163 Art. I. - An Experimental Investigation into the Skin effect in Electrical Oscillators; by C. A. Chant. 1. Introductory and Theoretical. The first explicit reference to the fact that, when a conductor is subjected to a periodic electromotive force, the current is not uniformly distributed over a cross-section of the conductor, is to be found in Art. 690 of Maxwell's Electricity and Magnetism. Upon obtaining the equation connecting the impressed electromotive force with the effective electromotive force and the inductive electromotive force he introduces terms which express the correction of this value [of the inductive electromotive force] arising from the fact that the current is not of uniform strength at different distances from the axis of the wire. The actual system of currents has a greater degree of freedom than the hypothetical system in which the current is constrained to be of uniform strength throughout the section. Hence the electromotive force required to produce a rapid change in the strength of the current is somewhat less than it would be on this hypothesis. It is quite certain, however, that Maxwell did not foresee the great interest and importance which the subject was destined soon to develop. In a series of papers written between 1884 and 1887 Heaviside dealt with the entire question of the propagation of electric currents into conductors and of magnetization into cores when produced by a periodic electromotive force. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology...



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