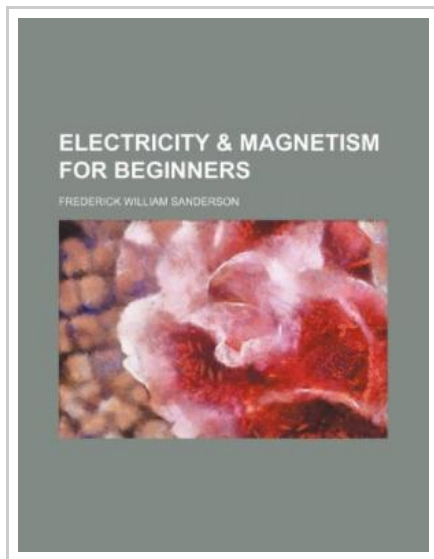




Electricity Magnetism for Beginners (Paperback)

By Frederick William Sanderson

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1897 Excerpt: .heat created we make use of the following relation (where J is Joule s dynamical equivalent of heat, i.e. 4.2 joules per w.gm.C. unit of heat). $V=JH$ and hence $T, JH K = It$ But the experiment shows that is constant and equal R. Now $EJH t Pi.-.$, is constant and equals R. . $JH = RPt$. i.e. for the same conductor we have the following: --Joule s Law.--The heat generated in a given conductor is directly proportional to the square of the current, and to the time the current passes, and to the resistance of the conductor. If the current is in amperes, the resistance in ohms, and the time in seconds, the heat created is zRi joules. If the current is in absolute units, the resistance in absolute units, and the time in seconds, the heat created is i^2Ri ergs. Now it takes 4.2 joules...



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