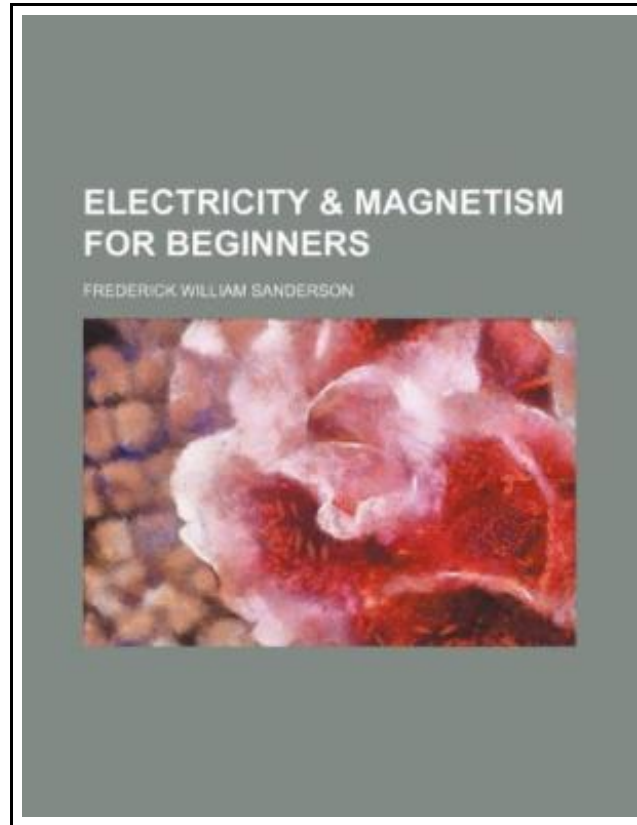


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Reviews

Very beneficial to all category of folks. We have study and that i am sure that i will planning to go through yet again again in the future. Its been printed in an extremely straightforward way in fact it is just soon after i finished reading this pdf where actually changed me, alter the way i really believe.
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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 wgm.C. unit of heat). $V=JH$ and hence $T, JH K = It$ But the experiment shows that J is constant and equal R . Now $EJH t$ π \therefore , J is constant and equals R . $\therefore JH = RPt$. 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^2Rt ergs. Now it takes 4.2 joules to create 1 wgm.CV unit of heat. Hence the heat created is $2Rr$. wgm.C. unit, 4.2 1.e.24 z $2Rr$ wgm.C. unit. In a resistance of R ohms through which a current z amperes is passing, heat is created at the rate of $z^2 R$ joules per sec.; i.e. the power given out in the conductor is $z^2 R$ watts. To maintain this, energy must be supplied or work done at the rate of $z^2 R$ watts. From this point of view the resistance of a conductor may be measured by the power required to maintain a current of 1...



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