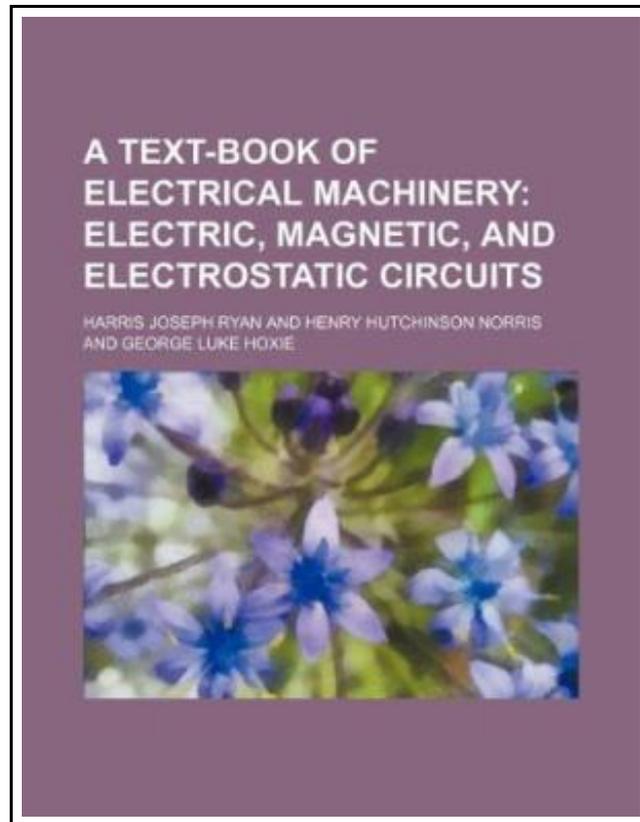


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A TEXT-BOOK OF ELECTRICAL MACHINERY; ELECTRIC, MAGNETIC, AND ELECTROSTATIC CIRCUITS



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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. 1906 Excerpt: .1.-OOI5 X 30,000 6 x 1000 x 100 Watts lost-, = 216. Ans. 30. Ewing s Theory of Magnetism.--Weber suggested that the individual molecules of a magnetic substance are themselves magnets and that these magnets are more or less free to turn about, under the influence of outside forces. This theory evidently accounts for such a substance becoming a magnet under the influence of such forces. Weber, Maxwell, and others have suggested theories, based on this one as fundamental, to account for hysteresis, the B-H relation, etc. These theories involve various directing forces, frictional resistance, effects of stress, etc., which complicate matters. Ewing has simplified the whole matter by assuming nothing more than the original idea of small magnets, free to turn. He has shown, both theoretically and by means of working models, that the mutual action of the molecular magnets upon each other is quite sufficient to account for most of the observed phenomena. The theory is as follows: The small magnets, when not under the influence of outside forces, form stable groupings. (See Fig. 930.) When a small magnetizing force is applied t + + f / / f w a b Fig. 93.--Ewing s Magnet Model. to a group the individual molecules turn slightly in the direction of that force. (See Fig. 93.) If the force is removed, the old groupings are again formed. This corresponds to the lower part of the B-H curve. If a stronger force be applied, a point is...

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