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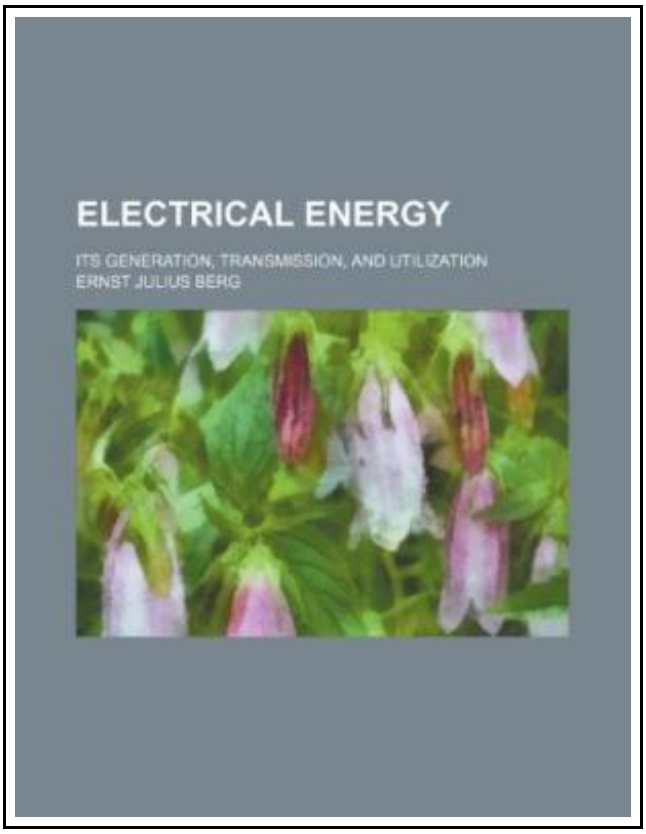

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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1907 Excerpt: .the magnetic reluctance is not constant, then the shift will be less. Experience has shown that in such machines the shift is about 0.5 of what the vector diagram would indicate. The wattless component of current, however, has either a magnetizing or a demagnetizing effect, and its action, therefore, in both types of machines can be considered the same. (See Fig. 48.) In the following calculations the armature reaction is represented by ml or m0I, where To is V2 i for two phase machines, and 1.5 v2/ for three phase machines. To0, the corresponding figure for the energy current in definite pole machines, is 0.5 m. t, the number of armature-turns per pole and phase and / the effective current. The self-induction of the machine is caused by the flux which is set up by the armature current, and which does not interlink with the main flux. In a definite pole machine this changes with different positions of the armature slot in regard to the poles. When the power component of the current is a maximum, the selfinduction is also a maximum, since the slot is then under the pole; whereas, when the wattless component is a maximum, the self-induction is a minimum for obvious reasons. The selfinduction in definite pole machines is about 50 greater with Fig. 49. Synchronous impedance curve of 100-kw. alternator. the conductor under the pole than when between the poles. With machines of uniform magnetic reluctance the self-induction, as well as...

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