Theory and Calculation of Alternating Current Phenomena (Paperback)

By Charles Proteus Steinmetz

Theclassics.Us, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1908 edition. Excerpt: .or in a stationary transformer. That is, magnetically, the power components of stator and rotor current neutralize each other. Not so, however, the reactive components, since the reactive component of the rotor current, h = V + j t in its reaction on the stator is reversed, by the reversed direction of relative rotation, or the slip, s =--1, and the effect of the rotor current, I2, on the stator circuit accordingly corresponds to hence, the total magnetic effect is =, -/) +/ +,); and since the total effect must be the exciting current 0 0 1 J J it follows that t/-/ = i/andt/ +t/ Hence, the stator power current and rotor power current, i and i2 , are equal to each other (when neglecting the small hysteresis power current). The synchronous exciter of the machine must supply in addition to the...

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