



## A course in electrical engineering Volume 2

By Chester Laurens Dawes

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 140 pages. Dimensions: 9.7in. x 7.4in. x 0.3in. 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. 1922 Excerpt: . . . the secondary and primary resistances, respectively, as a one-to-one ratio of rotor to stator turns is assumed. Line PG is then drawn. At any load current  $I_2$  ( $I_{PE}$ ) is the secondary current, being equal to  $I_1 - I_0$  vectorially. EA is the energy component of the current I, and therefore the total power input per phase,  $P_i = EA \times V$ . The core and friction losses  $P_c = BA \times V$  per phase. The primary copper loss  $I_1^2 R_1 = BC \times V$  per phase. The secondary copper loss  $I_2^2 R_2 = CD \times V$  per phase. The output  $P = DE \times V$  per phase. Draw PG parallel to PG and tangent to the circle at E. Break-down torque  $T_B = CE$  (to scale). The above diagram is drawn for but one phase of the motor. The values of power, losses, and torque must be multiplied by  $n$  if the motor has  $n$ ...



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