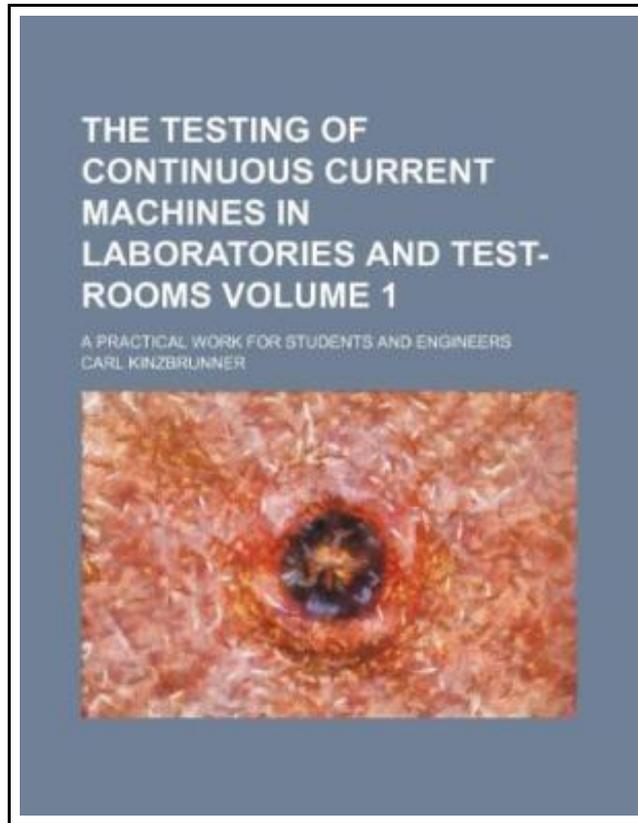


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THE TESTING OF CONTINUOUS CURRENT MACHINES IN LABORATORIES AND TEST-ROOMS VOLUME 1 A PRACTICAL WORK FOR STUDENTS AND ENGINEERS



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 $P_d = I_a V_T$; (23) for shunt machines, $\eta_e = \frac{P_d}{P_c} = \frac{I_a V_T}{I_a^2 r_a + I_a V_T}$ (24) for series machines, and $\eta_e = \frac{P_d}{P_c} = \frac{I_a V_T}{I_a^2 r_a + I_a V_T + I_m^2 r}$ (25) for compound machines. Hence the electrical efficiency of a machine becomes determinable when the resistances of the armature and field coils are known. The measurement of these resistances is described in Chapter II. In the following are three examples for determining respectively the electrical efficiency of (a) A shunt machine. (1) A series (e) A compound (a) Shunt Machine...



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