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Electrical Drives and Control for ANNA University (III-Mech-2013 Course)

By U.A. Bakshi, M.V. Bakshi

Technical Publications 0. Softcover. Book Condition: New. First edition. Introduction Basic elements - Types of electric drives - Factors influencing the choice of electrical drives- Heating and cooling curves - Loading conditions and classes of duty - Selection of power rating for drive motors with regard to thermal overloading and load variation factors. Drive Motor Characteristics Mechanical characteristics - Speed - Torque characteristics of various types of load and drive motors - Braking of electrical motors - D.C. motors : Shunt, series and compound - Single phase and three phase induction motors. Starting Methods Types of d.c. motor starters - Typical control circuits for shunt and series motors - Three phase squirrel cage and slip ring induction motors. Conventional and Solid State Speed Control of D.C. Drives Speed control of d.c. series and shunt motors - Armature and field control, Ward-Leonard control system - Using controlled rectifiers and d.c. choppers - Applications. Conventional and Solid State Speed Control of A.C. Drives Speed control of three phase induction motor - Voltage control, Voltage / frequency control, Slip power recovery scheme - Using inverters and a.c. voltage regulators - Applications. Printed Pages: 456.



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