



Power Electronics for GTU (VII-ECE-2008 Course)

By J.S. Chitode

Technical Publications 0. Softcover. Book Condition: New. First edition. Power Semiconductor Devices : Controlled Rectifiers : DC Chopper : Inverters : Applications : 1st edition, by Dr. J. S. Chitode
Power Semiconductor Devices : Introduction, Power diodes, Power BJT, Thyristor characteristics, Two transistor model of thyristor, Series and parallel operation of thyristors, Power MOSFET, GTO, IGBT, SIT- device structures and characteristics, Handling precautions and power dissipation in all these devices, Turn ON, Turn OFF methods and circuits, Protections, Ratings and applications, Handling precautions and power dissipation in all these devices. Controlled Rectifiers : Controlled rectifiers, Single phase power circuits, Three phase controlled rectifier circuits, Analysis of controlled rectifiers with resistive and inductive load and speed control of motors. DC Chopper : Introduction, Principle of operation, Analysis with waveforms of step-down and step-up choppers, Buck, Boost and buck-boost converter. Chopper classifications, Chopper control of motors. Inverters : Principal of operation of pulse width modulated inverters, Performance parameters, Single phase and three phase bridge inverters. Applications : Uninterruptible power supply, Switched mode power supply, RF heating, Battery charger. Printed Pages: 364.

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