



## Introduction to Electric Drives for UPTU (VI-ECE-2008 Course)

By J.S. Chitode

Technical Publications 0. Softcover. Book Condition: New. First edition. Thyristor Phase Controlled Rectifiers Choppers Control of D.C. Drives Control of A.C. Drives 1st edition, by Dr.

J.S.CHITODE Thyristor Principles and characteristics Gate triggering circuits. Phase Controlled Rectifiers Phase angle control, Single-phase half-wave controlled rectifier (One quadrant), Single-phase full-wave controlled rectifier (Two quadrant converters), Performance factors of line-commutated converters, The performance measures of two-pulse converters, Three phase controlled converters. Inverters : Introduction, Thyristor inverter classification, Series inverters, Parallel inverter, Three-phase bridge inverters, Three-phase bridge inverter with input-circuit commutation. Choppers Introduction, Principle of chopper operation, Control strategies, Step-up/down chopper, Jones chopper.

Cycloconverters : Introduction, The basic principle of operation, Single-phase to single-phase cycloconverter, Three-phase half-wave cycloconverters, Cycloconverter circuits for three-phase output. Control of D.C. Drives Introduction, Basic machine equations, Braking modes, Schemes for D.C. motor speed control, Single-phase separately excited drives, Braking operation of rectifier controlled separately excited motor, Single-phase separately excited drives, Power factor improvement, Three-phase separately excited drives, D.C. chopper drives. Control of A.C. Drives Introduction, Basic principle of operation, Squirrel-cage rotor design, Speed control of induction motors, Stator voltage control, Variable frequency control. Rotor resistance control. Slin power

### Reviews

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