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Electrical Machines II for ANNA University (V-EEE-2013 Course)

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Technical Publications 0. Softcover. Book Condition: New. First edition. Synchronous Generator Constructional details - Types of rotors - Winding factors - emf equation - Synchronous reactance - Armature reaction - Phasor diagrams of non salient pole synchronus generator connected to infinte bus - Synchronizing and parallel operation - Synchronizing torque - Change of excitation and mechanical input - Voltage regulation - EMF, MMF, ZPF and A.S.A methods - Steady state power - Angle characteristics - Two reaction theory - Slip test - Short circuit transients - Capability curves. Synchronous Motor Principle of operation - Torque equation - Operation on infinite bus bars - V and inverted V - curves - Power input and power developed equations - Starting methods - Current loci for constant power input, Constant excitation and constant power developed - Hunting - Natural frequency of oscillations - Damper windings - Synchronous condenser. Three Phase Induction Motor Constructional details - Types of rotors - Principle of operation - Slip - Cogging and crawling - Equivalent circuit - Torque-Slip characteristics - Condition for maximum torque - Losses and efficiency - Load test - No load and blocked rotor tests - Circle diagram - Separation of losses - Double cage...



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