

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



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Reviews

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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 synchronous generator connected to infinite 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 induction motors - Induction generators - Synchronous induction motor. Starting and Speed Control of Three Phase Induction Motor Need for starting - Types of starters - DOL, Rotor resistance, Autotransformer and star-delta starters - Speed control - Voltage control, Frequency control and pole changing - Cascaded connection - V/f control - Slip power recovery scheme - Braking of three phase induction motor : Plugging, Dynamic braking and regenerative braking. Single Phase Induction Motors and Special Machines Constructional details of single phase induction motor - Double field revolving theory and operation - Equivalent circuit - No load and blocked rotor test...



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