



Electrical Machines III for GTU (VI-EE-2008 Course)

By U.A. Bakshi,G.A. Patel

Technical Publications 0. Softcover. Book Condition: New. First edition. Testing of DC Machine Synchronous Machines Methods of starting of synchronous motors Auto Synchronous Motor Special Machines Permanent magnet Materials 1st edition, by U.A.Bakshi, G.A.Patel Testing of DC Machine : Hopkinson test, Field test, Separation of losses, Brake test. (Chapter - 1) Synchronous Machines : Introduction, Generated emf, Harmonics in voltage waveforms, MMF of distributed windings, Rotating magnetic field, Torque, Operations, Machine efficiency, Armature reaction and it`s compensation, Short circuit ratio, Effect of increase in excitation, Effect of change in torque and speed, Determination of synchronous reactance, Regulation by ZPF method, AIEE methods, Synchronizing and load shading between two machines, Operating characteristics, Load angle and power flow equations, Capability curves, Two reaction model of salient pole machines, Parallel operations, Load sharing between generators, Effect of unequal voltages and percentage impedance, Governor characteristics, Hunting, Short circuit transients, Single phase generators, Slip test for measurement of and X_q , Sudden short circuit of synchronous machine. (Chapter - 2) Methods of starting of synchronous motors, Different torques in synchronous motor, Stability, Synchronous condenser, Synchronous phase modifiers, V-curves and O-curves of synchronous motors, Hunting of synchronous machines and its prevention. (Chapter - 3) Auto Synchronous Motor...



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