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## AC Machines for GTU (IV-EE-2013 Course)

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

Technical Publications 0. Softcover. Book Condition: New. First edition. Poly-phase Induction Motor Construction, Types of motor, Working principle, Rotating magnetic field. Operating parameters at different load, No-load and blocked rotor test, Equivalent circuit, Phasor diagram, Circle diagram, Efficiency and slip scale with the help of circle diagram, Effect of rotor resistance on performance of motor, Double cage motor and its equivalent circuit, Introduction to machine dynamics. Starters of poly-phase induction motor including soft starter, Methods of speed control of 3-phase motor, Schematic diagram and advantages of variable voltage variable frequency drive. Electrical transients in induction machine, Magnetic levitation : Principle, Advantages and application of linear induction motor. Effect of harmonics, Harmonic torques, Cogging and crawling, Effect of unbalanced voltages on performance of motor. Performance of motor with variable voltage and frequency. Testing of induction motor as per IS, Energy efficient motors. Induction Generator Principle of operation and application, Its load and p.f. control. Single Phase A.C. Motors Double field revolving theory, Starting and running performance of 1-phase induction motor, Equivalent circuit of 1-phase induction motor, Types of single phase motors, Principle and operation of split phase, Resistance start, Capacitor start, capacitor start and run induction motor, Shaded pole induction motor,...



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