

Electric Machines III

EE-703C

Credit: 3

Contact: 3L

1. Generalised Theory of Electric machines. [8]
2. Transients and dynamics of A.C Machines, Synchronous and Induction machines. [8]
3. Direct Current machine Dynamics [4]
4. Space Vectors and its application to the analysis of electrical machines specially induction motors. [6]
5. Motor behavior under asymmetrical voltage supply. [4]
7. Harmonic effects on induction motor- harmonic equivalent circuit and harmonic torque. [4]

References:

1. Electrical Machines, M.S.Sarma and M.K. Pathak, Cengage Learning
2. P.S Bimbra, Generalised theory of Electrical Machines, Khanna Publications
3. B.K Bose, Modern Power Electronics and a.c drive, Pearson Education
4. R. Krishnan, Electric Motor Drive, Prentice Hall of India(P) Ltd