

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