



Electric Machines: Steady-State Theory and Dynamic Performance

Mulukutla S. Sarma

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Electric Machines is designed to serve as a textbook for a course on electrical machines for undergraduate students of engineering. It provides an insight into the fundamentals of the theory and performance of electric machines. The book includes comprehensive discussions on phasor diagrams and their applications in the study of electric machines. Beginning with topics such as three-phase circuits, transformers, and machine windings, the book goes on to cover induction machines, synchronous machines, and direct current machines as well as their transient and dynamic characteristics. Discussions on magnetic aspects of electric machines, principles of electromechanical energy conversion, and power semiconductor-controlled devices make the book a complete text for undergraduate students. Written in an easy-to-understand manner, the book presents the relevant topics in a systematic and lucid manner. Solved examples have been interspersed throughout the text to illustrate problem-solving methodologies. A large number of unsolved problems have been included to test the students' understanding of the concepts discussed.



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