

READ CHARLES SISKIND ELECTRICAL MACHINES

Electrical Machines

Analysis of Electrical Machines discloses the information essential for a holistic understanding of electrical machines. The title emphasizes the effective analysis of machine performance. The text first covers the basic transformer and magnetically coupled circuit theory concepts, and then proceeds to tackling commutator machines. Next, the selection deals with synchronous and induction machines. The text also talks about the transient analysis of noncommutator machines. The last chapter details the physical basis for machine inductance parameters. The book will be of great use to both student and practicing electronics engineers and technicians.

Electrical Machines

Includes Part 1A: Books and Part 1B: Pamphlets, Serials and Contributions to Periodicals

Electrical Control Systems in Industry

Condition monitoring of engineering plant has increased in importance as more and more engineering processes are automated and the manpower needed to operate and supervise plant is reduced. But electrical machinery has traditionally been thought of as reliable and requiring little attention, except at infrequent intervals when the plant is shut down for inspection. Rotating electrical machines, however, are at the core of most engineering processes and as machines are designed to tighter margins there is a growing need, for reliability's sake, to monitor their behaviour and performance on-line.

Direct - Current Machinery

The simulation of the response of electrical machines to both normal and abnormal operational conditions is important for the efficient design of an electrical power system and for the development of operational strategies and plant management systems. This text describes the computer solution of electrical machine performance, providing details of computer modelling techniques applied to electrical machines. Theories presented are enhanced with practical examples and industrial case studies. Introductory computer programs related to the operation of both synchronous and induction machines are included, in order to aid the implementation of the simulation methods described.

Direct-current Machinery

In his first book for the Series, Professor Smith developed the methods for analysing machines. In this book, Three-Phase Electrical Machine Systems: Computer Simulation, Professor Smith and Dr. Chen have extended these techniques to machine systems. Practice application of the methods to real multi machine system problems is illustrated by carefully chosen case studies. In particular, there are specific models of prime movers that include nonlinearities, and illustrations are provided of their response to various system demands. Sample computer programs are given. Practising consultant and project engineers as well as postgraduate students will readily be able to apply the techniques to their individual needs.

Elements of Electrical Machine Design

This revised text remains the same as the previously successful editions in that emphasis is on machine performance rather than design, though design is discussed where it bears on performance. Covers transformers and standard polyphase machines. A new chapter deals with types and applications of special transformers, induction machines, and synchronous machines. Other chapters have been expanded and updated. Includes problems with answers for each chapter.

Analysis of Electrical Machines

This book presents a thorough analysis of newly available sinusoidal three-phase windings in electrical machines, which provide many benefits over traditional windings, including energy savings, noise and vibration reduction, and reduced need for non-ferrous metals. The author's instruction on the implementation of this innovative optimization will be quite useful to researchers, developers and producers of electrical machines, as well as students mastering electromechanics.

Technical Inquiry Service

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The Unified Theory of Electrical Machines

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