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synchronous machines Also addresses modern techniques of control power electronics and applications Exposition builds
from first principles making this book accessible to a wide audience Contains a large number of problems and worked
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the 2nd edition of Ramshaw's text which has been revised to take into account both advances in the field and changes in
electrical and electronic engineering syllabuses and which contains worked examples and problem sets throughout

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Principles of Power Electronics John G. Kassakian, David J. Perreault, George C. Verghese, Martin F. Schlecht, 2023-08-03 Substantially expanded and updated the new edition of this classic textbook provides unrivalled coverage of the fundamentals of power electronics Comprehensive coverage of foundational concepts in circuits magnetics devices dynamic models and control establishes a strong conceptual framework for further study Extensive discussion of contemporary practical considerations enhanced by real world examples prepares readers for design scenarios ranging from low power dc dc converters to multi megawatt ac machine drives New topics include SiC and GaN wide bandgap materials superjunction MOSFET and IGBT devices advanced magnetics design multi level and switched capacitor converters RF converter circuits and EMI Over 300 new and revised end of chapter problems enhance and expand understanding of the material with solutions for instructors Unique in its breadth and depth and providing a range of flexible teaching pathways at multiple levels this is the definitive guide to power electronics for graduate and senior undergraduate students in electrical engineering and practicing electrical engineers

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Marian K. Kazimierczuk, Dariusz Czarkowski, 1995-10-12 Resonant power converters have many applications in the computer industry telecommunications and in industrial electronics Their advantage over traditional converters lies in their ability to transform power at very high frequencies This book discusses resonant power converters *Power Electronics Handbook*

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Principles of Electric Machines and Power Electronics, International Adaptation P. C. Sen, 2021-02-25 Principles of Electrical Machines provides a comprehensive discourse on the characteristics and working principles of various types of electrical machines Starting with magnetic circuits which form an integral part of electrical machines the book goes on to cover transformers and the general principles of energy conversion The book then extensively discusses different types of electrical machines dc machines three phase induction machines and three phase synchronous machines single phase motors which are widely used in household and office appliances and special motors such as servomotors linear synchronous motors brushless DC motors switched reluctance motors synchro motors and stepper motors Using a gradational approach the first few sections in each chapter are devoted to the basic principles of operation and later

sections are devoted mostly to a more detailed study of the particular machine In addition to strengthening the organization of the contents this International adaptation provides new and updated materials and is well supported by a plethora of new examples illustrations end of chapter problems and multiple choice questions

Design of Smart Power Grid Renewable Energy Systems Ali Keyhani, 2011-06-24 To address the modeling and control of smart grid renewable energy system into electric power systems this book integrates three areas of electrical engineering power system engineering control systems engineering and power electronics The approach to the integration of these three areas differs from classical methods Due to complexity of this task the author has decided to present the basic concepts and then present a simulation test bed in matlab to use these concepts to solve a basic problem in development of smart grid energy system Therefore each chapter has three parts first a problem of integration is stated and its importance is described Then the mathematical model of the same problem is formulated Next the solution steps are outlined This step is followed by developing a matlab simulation test bed Each chapter ends with a set of problems and projects The book is intended be used as textbook for instruction or by researchers This book can be used as undergraduate text for both electrical and mechanical engineers The prerequisite for the course is a course in fundamental of electrical engineering

Power Systems Daniel S. Kirschen, 2024-03-11 Fresh perspective on power systems dealing with uncertainty power electronics and electricity markets Power Systems is a highly accessible textbook on a subject that helps students understand how power systems work and the fundamental constraints that guide its operation and design In a rapidly developing field this unique approach equips readers to understand why things might be done in a certain way to help develop new solutions to modern problems To aid in reader comprehension the text contains examples that reinforce the understanding of the fundamental concepts informative and attractive illustrations and problems of increasing levels of difficulty An accompanying website includes a complete solution manual teaching slides and open source simulation tools and a variety of examples exercises and projects of various levels of difficulty Written by a leading figure in the power system community with a strong track record of writing for the student reader Power Systems covers some important classical topics such as the modeling of components power flow fault calculations and stability In addition it includes A detailed discussion of the demand for electricity and how it affects the operation of power systems An overview of the various forms of conventional and renewable energy conversion A primer on modern power electronic power conversion A careful analysis of the technical and economic issues involved in load generation balancing An introduction to electricity markets With its up to date accessible and highly comprehensive coverage Power Systems is an ideal textbook for various courses on power systems such as Power Systems Design and Operation Introduction to Electric Power Systems Power System Analysis and Power System Operation and Economics

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waveguide siw transition and a power division feed network finally the array element and the feed network are combined to form an 8 times 16 slot array the overall simulation design is carried out in hfss