Introduction to Modern Power Electronics
Andrew M. Trumper 2013-11-04 This comprehensive coverage of the basic principles and methods of power electronics for renewable energy and power conversion is based on the latest developments in the field. This book contains a comprehensive overview of the most advanced power electronics. Various new philosophies for power electronics are included in the book. The book has been used in a Power Electronics and Power Electronics Applications course at IMPERIAL COLLEGE LONDON. Thoroughly updated, this edition includes new chapters on advanced control techniques, converter topologies, and renewable energy applications. The book also includes new topics on power electronics for renewable energy applications.

Power Electronics: The Integrated Circuit Approach
Ned Mohan 1989

An accessible, up-to-date analysis of the possibilities and potential shortcomings of the computerized integrated circuit approach to power electronics. Introduction to the basic principles of power electronics and the design process. Includes the latest developments in the field, such as the use of computer-aided design and simulation software, and the impact of recent advances in power electronics technology on the design of new systems. Includes new chapters on advanced control techniques, converter topologies, and renewable energy applications. The book also includes new topics on power electronics for renewable energy applications.

Power Systems Analysis and Design
J. Duncan Glover 2011-01-03 This book provides an integrated introduction to the principles of power systems analysis and design, as well as an introduction to Distributed and Cogeneration (DCC) technology, including gas turbines, gensets, renewable ocean energy technologies, and microgrids. The book is designed for professionals to provide comprehensive, authoritative coverage of state-of-the-art power electronics and AC drive technology. Featuring an extensive introductory workbook, the book also includes problems from a variety of different industries, as well as a thorough discussion of power electronics and AC drive technology.

Power Systems Analysis
Allen J. Wood 1996-02-02 A comprehensive text on the operation and control of power generation and transmission systems. In this book, the unique aspects of power generation and transmission systems are discussed, as well as the role of power electronics in the design and operation of these systems. The book also includes a thorough discussion of the principles of power electronics and AC drive technology, as well as the impact of recent advances in power electronics technology on the design of new systems. Includes new chapters on advanced control techniques, converter topologies, and renewable energy applications. The book also includes new topics on power electronics for renewable energy applications.

Power System Analysis: Theory and Computation
L. Kazempour 2013-11-04 This book provides a comprehensive introduction to the principles of power systems analysis and design, as well as an introduction to Distributed and Cogeneration (DCC) technology, including gas turbines, gensets, renewable ocean energy technologies, and microgrids. The book is designed for professionals to provide comprehensive, authoritative coverage of state-of-the-art power electronics and AC drive technology. Featuring an extensive introductory workbook, the book also includes problems from a variety of different industries, as well as a thorough discussion of power electronics and AC drive technology.

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