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Author Ned Mohan has been a leader in EES education and research for decades. His three-book series on Power Electronics focuses on three essential topics in the power sequence based on applications relevant to this age of sustainable energy such as wind turbines and hybrid electric vehicles.

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Mohan leads a consortium of 80+ universities working to revitalize electric power engineering education. These texts are based on the integrated curriculum developed over nearly 15 years of research in education in this field. This textbook focuses on Power Electronics as one of the topics in an integrated Electric Energy Systems curriculum.

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Ned Mohan is the Oscar A. Schott Professor of Power Electronics in the Department of Electrical Engineering at the University of Minnesota, where he has been teaching for 33 years. He has written five textbooks; one of them has been translated into several languages. He has 13 patents and has written over 200 technical articles.

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beginners intermediate learners as well as experts and electric machines power electronics first course by ned mohan in 1881 two electricians built the worlds first power system at godalming in england it was powered by two waterwheels and produced an alternating current that in turn supplied seven siemens arc lamps at 250 volts and 34

This book is part of a three-book series for the sequence of electric power electives taught in most large universities' Electrical Engineering departments. Advances in hybrid-electric cars and alternative energy systems, coupled with the severe environmental problems associated with hydrocarbon-based fuels, are driving renewed interest in the electric energy systems (EES) curriculum at the Undergraduate level. Ned Mohan has been a leader in EES education and research for decades, as author of the best-selling text/reference Power Electronics with Wiley and a series of textbooks self-published under the MNPERE imprint. Mohan leads a consortium of 80+ universities working to revitalize electric power engineering education. These texts are based on the integrated curriculum developed over nearly 15 years of research in education in this field. This textbook focuses on Power Electronics as one of the topics in an integrated Electric Energy Systems curriculum. It follows a top-down, systems-level approach to highlight interrelationships between the sub-fields within this curriculum, and is intended to cover both the fundamentals and practical design in a single-semester course. The author follows a building-block approach to power electronics that provides an in-depth discussion of several important topics that often omitted from conventional courses, for example, designing feedback control, power-factor-correction circuits, soft-switching, and Space-Vector PWM.

Author Ned Mohan has been a leader in EES education and research for decades. His three-book series on Power Electronics focuses on three essential topics in the power sequence based on applications relevant to this age of sustainable energy such as wind turbines and hybrid electric vehicles. The three topics include power electronics, power systems and electric machines. Key features in the first Edition build on Mohan's successful MNPERE texts; his systems approach which puts dry technical detail in the context of applications; and substantial pedagogical support including PPT's, video clips, animations, clicker questions and a lab manual. It follows a top-down systems-level approach to power electronics to highlight interrelationships between these sub-fields. It's intended to cover fundamental and practical design. This book also follows a building-block approach to power electronics that allows an in-depth discussion of several important topics that are usually left. Topics are carefully sequenced to maintain

continuity and interest.

This book is part of a three-book series. Ned Mohan has been a leader in EES education and research for decades, as author of the best-selling text/reference Power Electronics. This book emphasizes applications of electric machines and drives that are essential for wind turbines and electric and hybrid-electric vehicles. The approach taken is unique in the following respects: A systems approach, where Electric Machines are covered in the context of the overall drives with applications that students can appreciate and get enthusiastic about; A fundamental and physics-based approach that not only teaches the analysis of electric machines and drives, but also prepares students for learning how to control them in a graduate level course; Use of the space-vector-theory that is made easy to understand. They are introduced in this book in such a way that students can appreciate their physical basis; A unique way to describe induction machines that clearly shows how they go from the motoring-mode to the generating-mode, for example in wind and electric vehicle applications, and how they ought to be controlled for the most efficient operation.

Market\_Desc: · Electrical Engineering Students · Electrical Engineering Instructors· Power Electronics Engineers Special Features: · Easy to follow step-by-step in depth treatment of all the theory.· Computer simulation chapter describes the role of computer simulations in power electronics. Examples and problems based on Pspice and MATLAB are included.· Introductory chapter offers a review of basic electrical and magnetic circuit concepts.· A new CD-ROM contains the following:· Over 100 of new problems of varying degrees of difficulty for homework assignments and self-learning.· PSpice-based simulation examples, which illustrate basic concepts and help in design of converters.· A newly-developed magnetic component design program that demonstrates design trade-offs.· PowerPoint-based slides, which will improve the learning experience and the ease of using the book About The Book: The text includes cohesive presentation of power electronics fundamentals for applications and design in the power range of 500 kW or less. It describes a variety of practical and emerging power electronic converters made feasible by the new generation of power semiconductor devices. Topics included in this book are an expanded discussion of diode rectifiers and thyristor converters as well as chapters on heat sinks, magnetic components which present a step-by-step design approach and a computer simulation of power electronics which introduces numerical techniques and commonly used simulation packages such as PSpice, MATLAB and EMTP.

Author Ned Mohan has been a leader in EES education and research for decades. His three-book series on Power Electronics focuses on three essential topics in the power sequence based on applications relevant to this age of sustainable energy such as wind turbines and hybrid electric vehicles. The three topics include power electronics, power systems and electric machines. Key features in the first Edition build on Mohan's successful MNPERE texts; his systems approach which puts dry technical detail in the context of applications; and substantial pedagogical support including PPT's, video clips, animations, clicker questions and a lab manual. It follows a top-down systems-level approach to power electronics to highlight interrelationships between these sub-fields. It's intended to cover fundamental and practical design. This book also follows a building-block approach to power electronics that allows an in-depth discussion of several important topics that are usually left. Topics are carefully sequenced to maintain continuity and interest.

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