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Power Electronics A First Course by Mohan. Role of Power Electronics in Providing Sustainable Electric Energy. As discussed in the introductory chapter of this textbook, power electronics is an enabling technology for powering information technology and making factory automation feasible. In addition, power electronics has a crucial role to play in providing sustainable electric energy.

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New York City College of Technology (City Tech) is the designated college of technology of The City University of New York, currently offering both baccalaureate and associate degrees, as well as specialized certificates. New York City College of Technology serves the city and the state by providing technically proficient graduates in the technologies of the arts, business, communications ...

Power Electronics is intended to be an introductory text in power electronics, primarily for the undergraduate electrical engineering student. The text is written for some flexibility in the order of the topics. Much of the text includes computer simulation using PSpice as a supplement to analytical circuit solution techniques.

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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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.

This book constitutes the refereed proceedings of the Third IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2012, held in Costa de Caparica, Portugal, in February 2012. The 65 revised full papers were carefully reviewed and selected from numerous submissions. They cover a wide spectrum of topics ranging from collaborative enterprise networks to microelectronics. The papers are organized in topical sections on collaborative systems, service orientation, knowledge and content management, human interaction, Petri nets, smart systems, robotic systems, perceptual systems, signal processing, energy, renewable energy, energy smart grid, power electronics, electronics, optimization in electronics, telecommunications and electronics, and electronic materials. The book also includes papers from the Workshop on Data Analysis and Modeling Retina in Health and Disease.

This book provides a comprehensive introduction to the fundamental principles of modern electronic devices and circuits. It is suitable for adoption as the textbook for the first course in electronics found in most curricula for undergraduate physics and electronic science students. It also covers several topics of electronics being taught at the postgraduate first-year level in physics. Besides, the students pursuing degree or diploma courses in electrical, electronics and computer engineering will find this textbook useful and self-contained. The text provides a thorough and rigorous explanation of characteristics and parameters of the most important semiconductor devices in general use today. It explains the underlying principles of how different circuits work—providing valuable insights into analysis of circuits so essential for solving design problems. Coverage includes all the basic aspects of analog and digital electronics plus several important topics such as current mirrors and their applications, amplifiers with active load, composite devices and their equivalent models and applications, op-amp mathematical and circuit modelling, and logic circuits analysis. Key Features : • Emphasizes underlying physics and operational characteristics of semiconductor devices • Numerous solved examples and review questions help the students develop an intuitive grasp of the theory. • Sufficient number of conventional and short-answer type model questions included in each chapter acquaint the students with the type of questions generally asked in examinations.

Vehicles are intrinsically linked to our lives. This book covers all technical details of the vehicle electrification process, with focus on power electronics. The main challenge in vehicle electrification consists of replacing the engine-based mechanical, pneumatic, or hydraulic ancillary energy sources with electrical energy processed through an electromagnetic device. The book illustrates this evolutionary process with numerous series-production examples for either of body or chassis systems, from old milestones to futuristic luxury vehicles. Electrification of ancillaries and electric propulsion eventually meet into an all-electric vehicle and both processes rely heavily on power electronics. Power electronics deals with electronic processing of electrical energy. This makes it a support technology for the automotive industry. All the automotive visions for the next decade (2020-2030) are built on top of power electronics and the automotive power electronics industry is expected at 15% compound annual growth rate, the highest among all automotive technologies. Hence, automotive power electronics industry is very appealing for recent and future graduates. The book structure follows the architecture of the electrical power system for a conventional engine-based vehicle, with a last chapter dedicated to an introduction onto electric propulsion. The first part of the book describes automotive technologies for generation and distribution of electrical power, as well as its usage within body systems, chassis systems, or lighting. The second part explores deeper into the specifics of each component of the vehicle electric power system. Since cars have been on the streets for over 100 years, each chapter starts with a list of historical achievements. Recognizing the engineering effort span over more than a century ennobles the R&D efforts of the new millennium. Focus on history of electricity in vehicle applications is another attractive treat of the book. The book fills a gap between books targeting practical education and works sharing advanced academic vision, offering students and academics a quick tour of the basic tools and long-standing infrastructure, and offering practicing engineers an introduction on newly introduced power electronics-based technologies. It is therefore recommended as a must-have book for students and early graduates in automotive power electronics activities.

Discusses the application of mathematical and engineering tools for modeling, simulation and control oriented for energy systems, power electronics and renewable energy This book builds on the background knowledge of electrical circuits, control of dc/dc converters and inverters, energy conversion and power electronics. The book shows readers how to apply computational methods for multi-domain simulation of energy systems and power

electronics engineering problems. Each chapter has a brief introduction on the theoretical background, a description of the problems to be solved, and objectives to be achieved. Block diagrams, electrical circuits, mathematical analysis or computer code are covered. Each chapter concludes with discussions on what should be learned, suggestions for further studies and even some experimental work. Discusses the mathematical formulation of system equations for energy systems and power electronics aiming state-space and circuit oriented simulations Studies the interactions between MATLAB and Simulink models and functions with real-world implementation using microprocessors and microcontrollers Presents numerical integration techniques, transfer-function modeling, harmonic analysis and power quality performance assessment Examines existing software such as, MATLAB/Simulink, Power Systems Toolbox and PSIM to simulate power electronic circuits including the use of renewable energy sources such as wind and solar sources The simulation files are available for readers who register with the Google Group: power-electronics-interfacing-energy-conversion-systems@googlegroups.com. After your registration you will receive information in how to access the simulation files, the Google Group can also be used to communicate with other registered readers of this book.

Fundamentals of Power Electronics, Second Edition, is an up-to-date and authoritative text and reference book on power electronics. This new edition retains the original objective and philosophy of focusing on the fundamental principles, models, and technical requirements needed for designing practical power electronic systems while adding a wealth of new material. Improved features of this new edition include: A new chapter on input filters, showing how to design single and multiple section filters; Major revisions of material on averaged switch modeling, low-harmonic rectifiers, and the chapter on AC modeling of the discontinuous conduction mode; New material on soft switching, active-clamp snubbers, zero-voltage transition full-bridge converter, and auxiliary resonant commutated pole. Also, new sections on design of multiple-winding magnetic and resonant inverter design; Additional appendices on Computer Simulation of Converters using averaged switch modeling, and Middlebrook's Extra Element Theorem, including four tutorial examples; and Expanded treatment of current programmed control with complete results for basic converters, and much more. This edition includes many new examples, illustrations, and exercises to guide students and professionals through the intricacies of power electronics design. Fundamentals of Power Electronics, Second Edition, is intended for use in introductory power electronics courses and related fields for both senior undergraduates and first-year graduate students interested in converter circuits and electronics, control systems, and magnetic and power systems. It will also be an invaluable reference for professionals working in power electronics, power conversion, and analogue and digital electronics.

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