

Essentials of Electrical and Computer Engineering

J. David Irwin | David V. Kerns, Jr.



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By

**Hamid R. Arabnia, Leonidas
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Essentials of Electrical and Computer Engineering J. David Irwin, David V. Kerns, Jr., 2022-01-19 Essentials of Electrical and Computer Engineering is for an introductory course or course sequence for nonmajors focused on the essentials of electrical and computer engineering that are required for all engineering students and to pass the electrical engineering portion of the Fundamentals of Engineering FE exam The text gently yet thoroughly introduces students to the full spectrum of fundamental topics and the modular presentation gives instructors great flexibility Special chapters and sections not typically found in nonmajors books The Electric Power System explains how the components of the Grid work together to produce and deliver electric power Ch 8 Load line analysis is integrated with small signal analysis providing wide application for enhancing students understanding of transistor and circuit operation and the options for analysis Ch 9 Instrumentation looks at how electrical measurements support the analysis and development of engineering systems Ch 13 Modern electronic devices and applications are presented in way useful for all majors at a level presuming no prior knowledge Technologies such as MEMS Microelectromechanical Systems are included to illustrate how modern technologies are interdisciplinary This text may also be useful for self study readers learning the fundamentals of electrical and computer engineering **Power**

Integrity for Electrical and Computer Engineers J. Ted Dibene, II, David Hockanson, 2019-09-24 A professional guide to the fundamentals of power integrity analysis with an emphasis on silicon level power integrity Power Integrity for Electrical and Computer Engineers embraces the most recent changes in the field offers a comprehensive introduction to the discipline of power integrity and provides an overview of the fundamental principles Written by noted experts on the topic the book goes beyond most other resources to focus on the detailed aspects of silicon and optimization techniques in order to broaden the field of study This important book offers coverage of a wide range of topics including signal analysis EM concepts for PI frequency domain analysis for PI numerical methods overview for PI and silicon device PI modeling Power Integrity for Electrical and Computer Engineers examine platform technologies system considerations power conversion system level modeling and optimization methodologies To reinforce the material presented the authors include example problems This important book Includes coverage on convergence accuracy and error analysis and explains how these can be used to analyze power integrity problems Contains information for modeling the power converter from the PDN to the load in a full system level model Explores areas of device level modeling of silicon as related to power integrity Contains example word problems that are related to an individual chapter s subject Written for electrical and computer engineers and academics Power Integrity for Electrical and Computer Engineers is an authoritative guide to the fundamentals of power integrity and explores the topics of power integrity analysis power integrity analytics silicon level power integrity and optimization techniques **FUNDAMENTALS OF MOBILE COMPUTING, Second Edition** PATTNAIK, PRASANT KUMAR, MALL, RAJIB, 2015-11-30 This textbook now in its Second Edition addresses the rapid advancements to the area of mobile computing

Almost every chapter has been revised to make the book up to date with the latest developments. It covers the main topics associated with mobile computing and wireless networking at a level that enables the students to develop a fundamental understanding of the technical issues involved in this new and fast emerging discipline. This book first examines the basics of wireless technologies and computer communications that form the essential infrastructure required for building knowledge in the area of mobile computations involving the study of invocation mechanisms at the client end, the underlying wireless communication and the corresponding server side technologies. It includes coverage of development of mobile cellular systems, protocol design for mobile networks, special issues involved in the mobility management of cellular system users, realization and applications of mobile ad hoc networks, MANETs, design and operation of sensor networks, special constraints and requirements of mobile operating systems and development of mobile computing applications. Finally, an example application of the mobile computing infrastructure to M-commerce is described in the concluding chapter of the book. The book is suitable for a one semester course in mobile computing for the undergraduate students of Computer Science and Engineering, Information Technology, Electronics and Communication Engineering, Master of Computer Applications (MCA) and the undergraduate and postgraduate science courses in computer science and Information Technology.

Key Features: Provides unified coverage of mobile computing and communication aspects. Discusses the mobile application development, mobile operating systems and mobile databases as part of the material devoted to mobile computing. Incorporates a survey of mobile operating systems and the latest developments.

Using the Engineering Literature Bonnie A. Osif, 2016-04-19. With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is information and then there is correct, appropriate and timely information. While we might love being able to turn to Wikipedia for encyclopedia-like information or search Google for the thousands of links.

Signals and Systems with MATLAB Computing and Simulink Modeling Steven T. Karris, 2007. This text is primarily written for junior and senior undergraduates majoring in electrical and computer engineering. You will need this text if you are a student or working professional seeking to learn and/or review the basics of the Laplace and Z transforms, the Fast Fourier Transform (FFT), state variables and the design of analog and digital filters. Contains many real-world examples completely solved in detail and verified with MATLAB computations and Simulink models.

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Transmission, Distribution, and Renewable Energy Generation Power Equipment Bella H. Chudnovsky, 2017-03-07. The revised edition presents, extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made. New sections in the second edition summarize the issues of the aging, reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy: solar, wind, tide and wave.

power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment

Essentials Of Electrical And Computer Engineering 1/e David V Kerns,J David Irwin, *Essential Electronic Design Automation (EDA)* Mark Birnbaum,2004 Describes the engineering needs addressed by the individual EDA tools and covers EDA from both the provider and user viewpoints Learn the importance of marketing and business trends in the EDA industry The EDA consortium is made up of major corporations including SUN HP and Intel

Fundamentals of MIMO Wireless Communications Rakhesh Singh Kshetrimayum,2017-04-17 Written in an easy to follow tutorial style this complete guide will allow students to quickly understand the key principles techniques and applications of MIMO wireless communications Important concepts such as MIMO channel models power allocation and channel capacity space time codes MIMO detection and antenna selection are covered in detail providing practical insights into the world of modern telecommunication systems The most up to date techniques are explained with examples including spatial modulation MIMO based cooperative communications large scale MIMO systems massive MIMO and space time block coded spatial modulation Supported by numerous solved examples review questions MATLAB problems and lecture slides and including all the necessary mathematical background this is an ideal text for students taking graduate single semester courses in wireless communications

Fundamentals of Applied Probability and Random Processes Oliver Ibe,2005-10-19 This book is based on the premise that engineers use probability as a modeling tool and that probability can be applied to the solution of engineering problems Engineers and students studying probability and random processes also need to analyze data and thus need some knowledge of statistics This book is designed to provide students with a thorough grounding in probability and stochastic processes demonstrate their applicability to real world problems and introduce the basics of statistics The book s clear writing style and homework problems make it ideal for the classroom or for self study Good and solid introduction to probability theory and stochastic processes Logically organized writing is presented in a clear manner Choice of topics is comprehensive within the area of probability Ample homework problems are organized into chapter sections

Simple Statistical Methods for Software Engineering C. Ravindranath Pandian,Murali Kumar,2015-05-21 Although there are countless books on statistics few are dedicated to the application of statistical methods to software engineering Simple Statistical Methods for Software Engineering Data and Patterns fills that void Instead of delving into overly complex statistics the book details simpler solutions that are just as effective and connect wi

Advances in Software Engineering, Education, and e-Learning Hamid R. Arabnia,Leonidas Deligiannidis,Fernando G. Tinetti,Quoc-Nam Tran,2021-09-09 This

book presents the proceedings of four conferences The 16th International Conference on Frontiers in Education Computer Science and Computer Engineering STEM FECS 20 The 16th International Conference on Foundations of Computer Science FCS 20 The 18th International Conference on Software Engineering Research and Practice SERP 20 and The 19th International Conference on e Learning e Business Enterprise Information Systems Includes the tracks Computer Engineering STEM Foundations of Computer Science Software Engineering Research and e Learning e Business Enterprise Information Systems Features papers from FECS 20 FCS 20 SERP 20 EEE 20 including one open access chapter Topics In Nanoscience - Part I: Basic Views, Complex Nanosystems: Typical Results And Future Wolfram Schommers,2021-12-17

With the development of the scanning tunneling microscope nanoscience became an important discipline Single atoms could be manipulated in a controlled manner and it became possible to change matter at its ultimate level it is the level on which the properties of matter emerge This possibility enables to construct and to produce devices materials etc with very small sizes and completely new properties That opens up new perspectives for technology and is in particular relevant in connection with nano engineering Nanosystems are unimaginably small and very fast No doubt this is an important characteristic But there is another feature possibly more relevant in connection with nanoscience and nanotechnology The essential point here is that we work at the ultimate level This is the smallest level at which the properties of our world emerge at which functional matter can exist In particular at this level biological individuality comes into existence This situation can be expressed in absolute terms This is not only the strongest material ever made this is the strongest material it will ever be possible to make D Ratner and M Ratner Nanotechnology and Homeland Security This is a very general statement All aspects of matter are concerned here Through the variation of the composition various forms of matter emerge with different items Nanosystems are usually small but they offer nevertheless the possibility to vary the structure of atomic molecular ensembles creating a diversity of new material specific properties A large variety of experimental possibilities come into play and flexible theoretical tools are needed at the basic level This is reflected in the different disciplines In nanoscience and nanotechnology we have various directions Materials science functional nanomaterials nanoparticles food chemistry medicine with brain research quantum and molecular computing bioinformatics magnetic nanostructures nano optics nano electronics etc The properties of matter which are involved within these nanodisciplines are ultimate in character i e their characteristic properties come into existence at this level The book is organized in this respect

Fundamentals of Solid-State Lighting Vinod Kumar Khanna,2014-06-03 Compared to traditional electrical filaments arc lamps and fluorescent lamps solid state lighting offers higher efficiency reliability and environmentally friendly technology LED solid state lighting is poised to take over conventional lighting due to cost savings there is pretty much no debate about this In response to the recent activity in this field Fundamentals of Solid State Lighting LEDs OLEDs and Their Applications in Illumination and Displays covers a range of solid state devices technologies and materials used for lighting and displays It

also examines auxiliary but critical requirements of efficient applications such as modeling thermal management reliability and smart lighting The book discusses performance metrics of LEDs such as efficiency efficacy current voltage characteristics optical parameters like spectral distribution color temperature and beam angle before moving on to luminescence theory injection luminescence radiative and non radiative recombination mechanisms recombination rates carrier lifetimes and related topics This lays down the groundwork for understanding LED operation The book then discusses energy gaps light emission semiconductor material special equipment and laboratory facilities It also covers production and applications of high brightness LEDs HBLEDs and organic LEDs OLEDs LEDs represent the landmark development in lighting since the invention of electric lighting allowing us to create unique low energy lighting solutions not to talk about their minor maintenance expenses The rapid strides of LED lighting technology over the last few years have changed the dynamics of the global lighting market and LEDs are expected to be the mainstream light source in the near future In a nutshell the book traces the advances in LEDs OLEDs and their applications and presents an up to date and analytical perspective of the scenario for audiences of different backgrounds and interests

Fundamentals of Dependable Computing for Software Engineers John Knight, 2012-01-12 Fundamentals of Dependable Computing for Software Engineers presents the essential elements of computer system dependability The book describes a comprehensive dependability engineering process and explains the roles of software and software engineers in computer system dependability Readers will learn Why dependability matters What it means for a

Lightning Engineering: Physics, Computer-based Test-bed, Protection of Ground and Airborne Systems Paul Hoole, Samuel Hoole, 2022-02-11 This book gives a contemporary and comprehensive overview of the physics of lightning and protection systems based on nearly 40 years of research teaching and consultancy work in this area The book begins with an overview of the climatology of lightning and electric storms as well as giving insight into lightning discharge from the preliminary discharges or processes such as corona stepped leader and subsequent return strokes including the important submicrosecond threats and continuous current The subsequent chapters present measures of lightning threat analysis to aircraft and electric power systems protection measures to be used in high voltage to low voltage computer and communication systems as well as to commercial and domestic buildings The book discusses challenges posed by the submicrosecond lighting current changes and climate change to present and future high voltage apparatus and structures including carbon composite aircraft and new buildings exposed to lightning strikes Including worked examples illustrations and detailed analysis Lightning Engineering will be of interest to electrical engineers as well as researchers and graduate students

Engineering Applications for New Materials and Technologies Andreas Öchsner, 2018-01-25 This book discusses the expertise skills and techniques needed for the development of new materials and technologies It focuses on finite element and finite volume methods that are used for engineering simulations and present many state of the art applications and advances to highlight these methods importance

For example modern joining technologies can be used to fabricate new compound or composite materials even those formed from dissimilar component materials These composite materials are often exposed to harsh environments must deliver specific characteristics and are primarily used in automotive and marine technologies i e ships amphibious vehicles docks offshore structures and even robots To achieve the desired material performance computer based engineering tools are widely used for simulation data evaluation and design processes

Online Teaching and Learning in Higher Education

Mariam Akinlolu, Manyane Makua, Nomalungelo Ngubane, 2024-06-03 This edited volume explores current practices in African higher education during and post the global pandemic It fills a gap in the existing literature by focusing on student engagement and online learning in South Africa and examines how pandemic restrictions amplified pre existing inequalities within the higher education sector The book is divided into 3 sections The first section discusses various methods of instruction and the use of online tools for facilitating learning succeeded by a section focusing on the resource implications of moving to online learning platforms from a social justice perspective and finally the last section considers issues and concerns about online assessments and quality assurance Drawing on lessons from the experiences of South African educators and students during the pandemic this book provides a knowledge base essential for the effective management of online teaching and learning in Africa It is intended for academic stakeholders to develop and engender an improved higher education climate

Enhancing the Resilience of the Nation's Electricity System National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Enhancing the Resilience of the Nation's Electric Power Transmission and Distribution System, 2017-10-25 Americans safety productivity comfort and convenience depend on the reliable supply of electric power The electric power system is a complex cyber physical system composed of a network of millions of components spread out across the continent These components are owned operated and regulated by thousands of different entities Power system operators work hard to assure safe and reliable service but large outages occasionally happen Given the nature of the system there is simply no way that outages can be completely avoided no matter how much time and money is devoted to such an effort The system s reliability and resilience can be improved but never made perfect Thus system owners operators and regulators must prioritize their investments based on potential benefits Enhancing the Resilience of the Nation s Electricity System focuses on identifying developing and implementing strategies to increase the power system s resilience in the face of events that can cause large area long duration outages blackouts that extend over multiple service areas and last several days or longer Resilience is not just about lessening the likelihood that these outages will occur It is also about limiting the scope and impact of outages when they do occur restoring power rapidly afterwards and learning from these experiences to better deal with events in the future

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