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Reviewed by Kim Jovanovich, Assistant Dean of Engineering and Professor of Practice Electrical Engineering, University of New Orleans on 2/8/17 The book actually does a great job of collecting and presenting those areas that are known to be problematic for first introductory courses in electrical and computer engineering.

*A First Course in Electrical and Computer Engineering ...*

3. Electrical and Electronic Technology by Hughes Pearson Education. REFERENCES : 1. Theory and Problems of Basic Electrical Engineering by D.P.Kothari & I.J. Nagrath PHI. 2. Principles of Electrical Engineering by V.K Mehta, S.Chand Publications. 3. Essentials of Electrical and Computer Engineering by David V. Kerns, JR. J. David Irwin Pearson.

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Electrical engineer pay is a bit lower on average to computer engineer pay, though. As of May 2012, average income for an electrical engineer was \$91,810, according to the U.S. Bureau of Labor Statistics. The aerospace sector offered the highest average at just over six figures. Ten percent of all electrical engineers made at or above \$136,690.

*Which One Is Better: Electrical Engineering or Computer ...*

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For an introductory course or course sequence in electrical engineering or electrical and computer engineering. May also be useful for the reader who wishes to use a self-study approach to learn the fundamentals of electrical and computer engineering. With its clear presentation of fundamentals in the context of various applications from all engineering fields, this text by proven authors represents the best balanced general introduction to the field available. It introduces the latest technologies such as MEMS (Microelectromechanical Systems) to illustrate how modern technologies are interdisciplinary. Presenting modularized coverage of a wide range of topics to afford instructors great flexibility, Essentials of Electrical and Computer Engineering, is an exceptionally strong teaching tool—gently yet thoroughly introducing students to the full spectrum of fundamental topics; offering strong pedagogical support and clear explanations, and never relying on superficial, cursory explanations.

Communications technologies increasingly pervade our everyday lives, yet the underlying principles are a mystery to most. Even among engineers and technicians, understanding of this complex subject remains limited. However, there is undeniably a growing need for all technology disciplines to gain intimate awareness of how their fields are affected by a more densely networked world. The computer science field in particular is profoundly affected by the growing dominance of communications, and computer scientists must increasingly engage with electrical engineering concepts. Yet communications technology is often perceived as a challenging subject with a steep learning curve. To address this need, the authors have transformed classroom-tested materials into this accessible textbook to give readers an intimate understanding of fundamental communications concepts. Readers are introduced to the key essentials, and each selected topic is discussed in detail to promote mastery. Engineers and computer scientists will gain an understanding of concepts that can be readily applied to their respective fields, as well as provide the foundation for more advanced study of communications. Provides a thorough grounding in the basics by focusing on select key concepts Clarifies comprehension of the subject via detailed explanation and illustration Helps develop an intuitive sense of both digital and analog principles Introduces key broadcasting, wireless and wired systems Helps bridge the knowledge gap between software and electrical engineering Requires only basic calculus and trigonometry skills Classroom tested in undergraduate CS and EE programs Communications Engineering by Lee, Chiu, and Lin will give advanced undergraduates in computer science and beginning students of electrical engineering a rounded understanding of communications technologies. The book also serves as a key introduction to specialists in industry, or anyone who desires a working understanding of communications technologies.

The electrical power supply is about to change; future generation will increasingly take place in and near local neighborhoods with diminishing reliance on distant power plants. The existing grid is not adapted for this purpose as it is largely a remnant from the 20th century. Can the grid be transformed into an intelligent and flexible grid that is future proof? This revised edition of Electrical Power System Essentials contains not only an accessible, broad and up-to-date overview of alternating current (AC) power systems, but also end-of-chapter exercises in every chapter, aiding readers in their understanding of the material introduced. With an original approach the book covers the generation of electric energy from thermal power plants as from renewable energy sources and treats the incorporation of power electronic devices and FACTS. Throughout there are examples and case studies that back up the theory or techniques presented. The authors set out information on mathematical modelling and equations in appendices rather than integrated in the main text. This unique approach distinguishes it from other text books on Electrical Power Systems and makes the resource highly accessible for undergraduate students and readers without a technical background directly related to power engineering. After laying out the basics for a steady-state analysis of the three-phase power system, the book examines: generation, transmission, distribution, and utilization of electric energy wind energy, solar energy and hydro power power system protection and circuit breakers power system control and operation the organization of electricity markets and the changes currently taking place system blackouts future developments in power systems, HVDC connections and smart grids The book is supplemented by a companion website from which teaching materials can be downloaded.

A practical guide for solving real-world circuit boardproblems Electrical, Electronics, and Digital Hardware Essentials forScientists and Engineers arms engineers with the tools theyneed to test, evaluate, and solve circuit board problems. Itexplores a wide range of circuit analysis topics, supplementing thematerial with detailed circuit examples and extensiveillustrations. The pros and cons of various methods of analysis,fundamental applications of electronic hardware, and issues inlogic design are also thoroughly examined. The author draws on more than twenty-five years of experience inSilicon Valley to present a plethora of troubleshooting techniquesreaders can use in real-life situations. Plus, he devotes an entirechapter to the design of a small CPU, including all criticalelements—the complete machine instruction set, from itsexecution path to logic implementation and timing analysis, alongwith power decoupling, resets, and clock considerations.Electrical, Electronics, and Digital Hardware Essentials forScientists and Engineers covers: Resistors, inductors, and capacitors as well as a variety ofanalytical methods The elements of magnetism—an often overlooked topic insimilar books Time domain and frequency analyses of circuit behavior Numerous electronics, from operational amplifiers to MOSFETtransistors Both basic and advanced logic design principles andtechniques This remarkable, highly practical book is a must-have resourcefor solid state circuit engineers, semiconductor designers andengineers, electric circuit testing engineers, and anyone dealingwith everyday circuit analysis problems. A solutions manualis available to instructors. Please email ahref="mailto:ieeeproposals@wiley.com"ieeeproposals@wiley.com/a torequest the solutions manual. An errata sheet isavailable.

The book is a review of essential skills that an entry-level or experienced engineer must be able to demonstrate on a job interview and perform when hired. It will help engineers prepare for interviews by demonstrating application of basic principles to practical problems. Hiring managers will find the book useful because it defines a common ground between the student's academic background and the company's product or technology-specific needs, thereby allowing managers to minimize their risk when making hiring decisions. Ten Essential Skills contains a series of "How to" chapters. Each chapter realizes a goal, such as designing an active filter or designing a discrete servo. The primary value of these chapters, however, is that they apply engineering fundamentals to practical problems. The book is a handy reference for engineers in their first years on the job. Enables recent graduates in engineering to succeed in challenging technical interviews Written in an intuitive, easy-to-follow style for the benefit of busy students and employers Book focuses on the intersection between company-specific knowledge and engineering fundamentals Companion website includes interview practice problems and advanced material

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