

Foundations Of Electronics And Circuits And Devices By Russell L Meade

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EAN : 9781418005412 Authors : Meade, Russell, Diffenderfer, Robert Binding : Hardcover Publisher : CENGAGE Delmar Learning Publication Date : 1980-01-01
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The course introduces the fundamentals of the lumped circuit abstraction. Topics covered include: resistive elements and networks; independent and dependent sources; switches and MOS transistors; digital abstraction; amplifiers; energy storage elements; dynamics of first- and second-order networks; design in the time and frequency domains; and analog and digital circuits and applications.

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Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of 'abstraction,' the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work. A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.

This book "comprehensively teaches electronics fundamentals for both DC and AC circuits, from Ohm's Law through series and parallel resonant circuits, and includes other related topics, such as: network theorems, magnetism and electromagnetism, transformers, measuring instruments, inductance and capacitance in DC and AC, and RL and RC circuit analysis. The circuits and devices chapters features strong coverage of solid-state devices theory and important practical circuits in which diodes, BJT's, FET's, and MOSFET's and optoelectronic devices are used." -- back cover.

Accompanying CD-ROM contains Delmar Learning's Electronics into the Future product with multimedia presentations, Excel templates, MultiSIM circuit files, and a copy of Textbook edition of MultiSIM.

From principles of basic circuits through analysis of passive and active circuit components, Foundations of Electronics: Circuits and Devices is the perfect choice for introducing readers to the world of electronics technology. Chock full of full-color charts, photographs, schematics and diagrams, this newly redesigned edition uses real-world color codes and strategic highlighting to focus attention on key points. Reader-friendly and ideal for technician training, this comprehensive book begins by exploring basic concepts such as voltage, current, plus power and resistance in series, parallel and combination circuits. Equipped with an understanding of circuit behavior, readers move on to the study of more complex topics, including: network theorems, magnetism, resonance, and more. Extensively updated to better meet the needs of today's technician's, the final ten chapters provide a first-rate introduction to modern electronic devices, with greater emphasis on integrated circuits and op-amps plus all-new coverage of optical components. Throughout the book, step-by-step examples and practice problems appear directly after explanations of key concepts, providing a bridge between must-know theory and hands-on circuit work. Attention-getting previews, helpful key terms lists, learning objectives, summaries and other pedagogical aids have also been integrated into every chapter to motivate users and build their confidence.

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The Lab Manual for FOUNDATIONS OF ELECTRONICS: CIRCUITS & DEVICES, 5th Edition, is a valuable tool designed to enhance your classroom experience. Lab activities, objectives, materials lists, step-by-step procedures, illustrations, review questions and more are all included.

Optical Biosensors, 2ed describes the principles of successful systems, examples of applications, and evaluates the advantages and deficiencies of each. It also addresses future developments on two levels: possible improvements in existing systems and emerging technologies that could provide new capabilities in the future. The book is formatted for ease of use and is therefore suitable for scientists and engineers, students and researcher at all levels in the field. * Comprehensive analysis and review of the underlying principles by optical biosensors * Updates and informs on all the latest developments and hot topic areas * Evaluates current methods showing the advantages and disadvantages of various systems involved

Provides detailed, clear explanations of the fundamentals of electrical engineering, keeping readers focused on the basics. Maintains a strong emphasis on vocabulary throughout, encouraging further thought and communication based on chapter discussions. This book carefully explores the unifying themes of Electrical Engineering, maintaining a low level of detail and abstract theory. Topics include: Electric Power Systems, The Physical Basis of Electromechanics, Magnetic Structures and Electrical Transformers, The Synchronous Machine, Induction Motors, Direct-Current Motors, and Power Electronic Systems.

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