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SIMS BLEVINS

Modern Digital Halftoning
McGraw-Hill

Science/Engineering/Math
Packed full of real circuits to build and test, Hands-On Electronics is a unique introduction to analog and digital electronics theory and practice. Ideal both as a college textbook and for self-study, the friendly style, clear illustrations and construction details included in the book encourage rapid and effective learning of analog and digital circuit design theory. All the major topics for a typical one semester course are covered including RC circuits, diodes, transistors, op-amps, oscillators, TTL logic,

counters, D/A converters and more. There are also chapters explaining how to use the equipment needed for the examples (oscilloscope, multimeter and breadboard) together with pin-out diagrams and manufacturers' specifications for all the key components referred to in the book.

Principles and Practices

Tata McGraw-Hill

Education

This book focuses on the basic principles of digital electronics and logic design. It is designed as a textbook for undergraduate students of electronics, electrical engineering, computer science, physics, and information technology. The text covers the syllabi

of several Indian and foreign universities. It depicts the comprehensive resources on the recent ideas in the area of digital electronics explored by leading experts from both industry and academia. A good number of diagrams are provided to illustrate the concepts related to digital electronics so that students can easily comprehend the subject. Solved examples within the text explain the concepts discussed and exercises are provided at the end of each chapter. **Digital Computer Electronics** CRC Press
Modern Digital Design and Switching Theory is an important text that focuses on promoting an

understanding of digital logic and the computer programs used in the minimization of logic expressions. Several computer approaches are explained at an elementary level, including the Quine-McCluskey method as applied to single and multiple output functions, the Shannon expansion approach to multilevel logic, the Directed Search Algorithm, and the method of Consensus. Chapters 9 and 10 offer an introduction to current research in field programmable devices and multilevel logic synthesis. Chapter 9 covers more advanced topics in programmed logic devices, including techniques for input decoding and Field-Programmable Gate Arrays (FPGAs). Chapter 10 includes a discussion of boolean division, kernels and factoring, boolean tree structures, rectangle covering, binary decision diagrams, and if-then-else operators. Computer algorithms covered in these two chapters include weak division, iterative weak division, and kernel extraction by tabular methods and by rectangle covering theory. Modern Digital Design and

Switching Theory is an excellent textbook for electrical and computer engineering students, in addition to a worthwhile reference for professionals working with integrated circuits.

Digital Electronics and Microprocessors Modern Digital Electronics 4E With the advent of integrated circuit technology, the importance and usefulness of digital electronics has vastly increased. The size, cost and power dissipation have been reduced in the ratio of 2,000:1 and the performance, reliability and efficiency of equipment increased tremendously. This book gives a basic concept of digital techniques and then introduces simple function to complex functions. It uses SSI and MSI, TTL ICs of the most commonly available 54/74 series. The book will be useful to students of electronics and computer technology, as well as to practicing engineers and technicians.

Modern Digital Design and Switching Theory Oxford University Press, USA Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical

advancement

Foundations of Analog and Digital Electronic Circuits Courier

Corporation

This is the book, in which the subject matter is dealt from elementary to the advance level in a unique manner. Three

outstanding features can be claimed for the book

viz. (i) style; the student, while going through the pages would feel as if he is attending a class room.

(ii) language: that an average student can follow and (iii) approach:

it takes the student from "known to unknown" and "simple to complex." The book is reader friendly, thought provoking and stimulating. It helps in clearing cobwebs of the mind. The style is lucid and un-adulterated.

Unnecessary mathematics has been avoided. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

Allied Physics Paper I & II PHI Learning Pvt. Ltd.

The late 1980s, revolutionary advances in digital halftoning enabled inkjet printers to achieve much higher image fidelity. The rapid rate of progress has resulted in numerous breakthroughs scattered throughout the

literature, rendering old technologies obsolete and renewing the need for a centralized source on the current state of the art. Entirely revised and updated, *Modern Digital Halftoning, Second Edition* provides an integrated and up-to-date treatment of stochastic halftoning and digital printing. Using full-color illustrations to enhance the text, this edition incorporates new topics as well as updated models, algorithms, and methods used to construct and improve the quality of green-noise, blue-noise, and multitone images. Following a review of various halftoning techniques, this edition now covers amplitude modulated dither arrays, adapting to human visual models, direct binary search, and handling stochastic moiré problems. It also presents a new chapter on lenticular printing, a means for printing color holographic images. An accompanying CD-ROM contains MATLAB® software files and illustrated examples employing algorithms, statistics, and other key concepts from the book. Documenting the development of digital printing since the first edition, *Modern Digital*

Halftoning, Second Edition offers a well-rounded and accurate perspective on the technological capabilities of digital printing and provides all the necessary tools for continuing research in the field.

Modern Digital Electronics
Morgan Kaufmann

The second edition of this book has been updated and enlarged, especially the chapters on digital electronics. In the analog part, several additions have been made wherever necessary. Also, optical devices and circuits have been introduced. Analog electronics spans semiconductors, diodes, transistors, small and large-signal amplifiers, OPAMPs and their applications. Both BJT and JFET, and MOSFET are treated parallelly so as to highlight their similarities and dissimilarities for thorough understanding of their parameters and specifications. The digital electronics covers logic gates, combinational circuits, IC families, number systems codes, adders/subtractors, flip-flops, registers and counters. Sequential circuits, memories and D/A and A/D convertor circuits are especially stressed. Fabrication

technology of integrated devices and circuits have also been dealt with. Besides, many new examples and problems have been added section-wise. The text is written in simple yet rigorous manner with profusion of illustrative examples as an aid to clear understanding. The student can self-study several portions of the book with minimal guidance. A solution manual is available for the teachers.

Digital Design, Preview

Ed. S. Chand Publishing

This new edition of *Digital Electronics* is up-to-date with current devices and includes many practical exercises whilst continuing to provide a comprehensive introduction to the principles of modern digital electronics.

[A Practical Introduction to Analog and Digital Circuits](#)

Tata McGraw-Hill

Education

Provides comprehensive coverage of the basic principles and methods of electric power conversion and the latest developments in the field. This book constitutes a comprehensive overview of the modern power electronics. Various semiconductor power switches are described,

complementary components and systems are presented, and power electronic converters that process power for a variety of applications are explained in detail. This third edition updates all chapters, including new concepts in modern power electronics. New to this edition is extended coverage of matrix converters, multilevel inverters, and applications of the Z-source in cascaded power converters. The book is accompanied by a website hosting an instructor's manual, a PowerPoint presentation, and a set of PSpice files for simulation of a variety of power electronic converters. Introduction to Modern Power Electronics, Third Edition: Discusses power conversion types: ac-to-dc, ac-to-ac, dc-to-dc, and dc-to-ac Reviews advanced control methods used in today's power electronic converters Includes an extensive body of examples, exercises, computer assignments, and simulations Introduction to Modern Power Electronics, Third Edition is written for undergraduate and graduate engineering students interested in

modern power electronics and renewable energy systems. The book can also serve as a reference tool for practicing electrical and industrial engineers.

Fundamentals of Modern Digital Systems John Wiley & Sons

Part of the McGraw-Hill Core Concepts Series, Modern Digital Electronics is an ideal textbook for a course on digital electronics at the undergraduate level. The text introduces digital systems and techniques through a bottom-up approach that allows users to start out with the basics of integrated circuits/circuit design and delve into topics such as digital design, flip flops, A/D and D/A. The book then moves on to explore elements of complex digital circuits with material like FPGAs, PLDs, PLAs, and more. Rich pedagogical features include review questions with answers, a glossary of key terms, a large number of solved examples, and numerous practice problems. This is a concise, less expensive alternative to other digital logic designs. This series is edited by Dick Dorf.

ELECTRONICS Walter de Gruyter GmbH & Co KG

Designed as a textbook for undergraduate students in Electrical Engineering, Electronics, Computer Science, and Information Technology, this up-to-date, well-organized study gives an exhaustive treatment of the basic principles of Digital Electronics and Logic Design. It aims at bridging the gap between these two subjects. The many years of teaching undergraduate and postgraduate students of engineering that Professor Somanathan Nair has done is reflected in the in-depth analysis and student-friendly approach of this book. Concepts are illustrated with the help of a large number of diagrams so that students can comprehend the subject with ease. Worked-out examples within the text illustrate the concepts discussed, and questions at the end of each chapter drill the students in self-study.

An Introduction to Microcomputers

Cambridge University Press

Test Prep for Digital Electronics—GATE, PSUS AND ES Examination Modern Digital Electronics John Wiley & Sons Incorporated

The fourth edition of this text provides

comprehensive coverage of the basic techniques used in modern digital electronics. The book covers the digital part of the Electronics NII unit and the level three unit Digital Electronic NIII of the BTEC course Modern Diesel Technology: Electricity and Electronics John Wiley & Sons Incorporated Scope of science and technology is expanding at an exponential rate and so is the need of skilled professionals i.e., Engineers. To stand out of the crowd amidst rising competition, many of the engineering graduates aim to crack GATE, IES and PSUs and pursue various post graduate Programmes. Handbook series as its name suggests is a set of Best-selling Multi-Purpose Quick Revision resource books, those are devised with anytime, anywhere approach. It's a compact, portable revision aid like none other. It contains almost all useful Formulae, Equations, Terms, Definitions and many more important aspects of these subjects. Electronics and Communication Engineering Handbook has been designed for aspirants of GATE, IES, PSUs and Other

Competitive Exams. Each topic is summarized in the form of key points and notes for everyday work, problem solving or exam revision, in a unique format that displays concepts clearly. The book also displays formulae and circuit diagrams clearly, places them in context and crisply identifies and describes all the variables involved. Diode, Transistor, Analog Electronics, Integrated Circuits, Industrial Device, Signals and systems, Communication Systems, Network Theory, Control Systems, Electromagnetic Field Theory, Antenna and Wave Propagation, Digital Electronics, Microprocessor, Material Science, Electronics Measurement and Instrumentation, Microwave Engineering *Hands-On Electronics* Apress Digital Design provides a modern approach to learning the increasingly important topic of digital systems design. The text's focus on register-transfer-level design and present-day applications not only leads to a better appreciation of computers and of today's ubiquitous digital devices, but also provides for a better understanding of careers

involving digital design and embedded system design. 1. Introduction 2. Combinational Logic Design 3. Sequential Logic Design-Controllers 4. Datapath Components 5. Register-Transfer Level (RTL) Design 6. Optimizations and Tradeoffs 7. Physical Implementation 8. Programmable Processors 9. Hardware Description Languages 2000 Solved Problems in Digital Electronics Elsevier Market_Desc: · Undergraduate and graduate level students of different universities Special Features: · Each chapter in the book, whether it is related to operational fundamentals or applications, is amply illustrated with diagrams and design examples · Each chapter concludes in a comprehensive self-evaluation exercise comprising multiple-choice questions (with answers) and other type of objective type questions (with answers) · Unlike most of the books in print on the subject that are either too brief, lacking in illustrated examples and examination-oriented study material, or too voluminous, containing lot of redundant material, the book has been written

keeping in mind the topics taught in the subject and covers in entirety what is required by undergraduate and graduate level students of engineering in electrical, electronics, instrumentation and control, computer science and information technology disciplines

About The Book: Digital Electronics is a precise and yet complete book covering both Digital Electronics Fundamentals and Integrated Circuits. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. Each chapter in the book is amply illustrated with diagrams and design examples. Each chapter concludes in a comprehensive self-evaluation exercise comprising multiple-choice and objective type questions (with answers). The book has up-to-date

coverage of recent application fields, such as programmable logic devices, microprocessors, and microcontrollers. This valuable reference book provides in-depth information about multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits.

MODERN DIGITAL ELECTRONICS 4E CRC

Press

With exceptionally clear writing, Lathi takes students step by step through a history of communications systems from elementary signal analysis to advanced concepts in communications theory. The first four chapters of the text present basic principles, subsequent chapters offer ample material for flexibility in course content and level. All Topics are covered in detail, including a thorough treatment of frequency modulation and

phase modulation. Numerous worked examples in each chapter and over 300 end-of-chapter problems and numerous illustrations and figures support the content.

Digital Electronics Practice Using

Integrated Circuits PHI

Learning Pvt. Ltd.

This book provides a comprehensive coverage of the more important circuits and techniques used in modern digital electronic circuitry. The various logic families are discussed and their relative merits considered; the description of the digital circuits, such as counters, is illustrated by reference to the two most popular families, i.e.....

Principles, Devices and Applications CRC Press

This graduate-level text explains the modern in-depth approaches to the calculation of electronic structure and the properties of molecules. Largely self-contained, it features more than 150 exercises. 1989 edition.