

Digital Electronics V K Puri

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Allied Physics Paper I & II - R Murugesan 2005

Paper-I | Waves & Oscillations | Properties Of Matters | Thermal Physics | Electricity And Magnetism | Geometrical Optics | Paper-II | Physical Optics | Atomic Physics | Nuclear Physics | Elements Of Relativity And Quantum Mechanics | Electronics Practical Physics | Young'S Modulus By Non-Uniform Bending | Young'S Modulus (E) Non-Uniform Bending | Rigidity Modulus (Static Torsion Method)|Rigidity Modulus By Torsional Oscillations | Surface Tension And Interfacial Surface Tension Drop Weight Method | Comparison Of Viscosities Of Two Liquids—Burette Method | Specific Heat Capacity Of A Liquid | Sonometer— Frequency Of A.C. Mains | Determination Of Radius Of Curvature | Air Wedge — Thickness Of A Wire | Spectrometer-Diffraction On Gravity- Wavelength Of Hg Lines | Potentiometer-Voltmeter Calibration | Post Office Box-Measure Of Resistance And Specific Resistance | Ballistic Galvanometer Figure Of Merit | Logic Gates And, Or, Not | Zener Diode Characteristics | Nand Gate As A Universal Gate

Science Abstracts - 1995

SOLID STATE PHYSICS - V K BABBAR 1997

This book presents a comprehensive introduction to Solid State Physics for undergraduate students of pure and applied sciences and engineering disciplines. It acquaints the students with the fundamental properties of solids starting from their properties. The coverage of basic topics is developed in terms of simple physical phenomenon supplemented with theoretical derivations and relevant models which provides strong grasp of the fundamental principles of physics in solids in a concise and self-explanatory manner.

Indian National Bibliography - B. S. Kesavan 2003

Fundamentals of Circuits and Filters - Wai-Kai Chen 2018-10-08

This volume, drawn from the Circuits and Filters Handbook, focuses on mathematics basics; circuit elements, the devices, and their models; and linear circuit analysis. It examines Laplace transformation, Fourier methods for signal analysis and processing, z-transform, and wavelet transforms. It also explores network laws and theorems, terminal and port representation, analysis in the frequency domain, and more.

PULSE AND DIGITAL CIRCUITS - A. ANAND KUMAR 2008-02-12

The second edition of this well-received text continues to provide a coherent and comprehensive coverage of Pulse and Digital Circuits, suitable as a textbook for use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design

concepts. It includes a number of classroom-tested problems to encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students. NEW TO THIS EDITION : • Includes two new chapters—Logic Gates and Logic Families—to meet the curriculum requirements. • Provides short questions with answers at the end of each chapter. • Presents several new illustrations, examples and exercises

Bihar B.ed Combined Entrance Test CET 2022 - Arihant Experts 2021-11-26

Peterson's Graduate Programs in Engineering and Applied Sciences, 1996 - Peterson's Guides 1995-12-10

Graduate students depend on this series and ask for it by name. Why? For over 30 years, it's been the only one-stop source that supplies all of their information needs. The new editions of this six-volume set contain the most comprehensive information available on more than 1,500 colleges offering over 31,000 master's, doctoral, and professional-degree programs in more than 350 disciplines. New for 1997 -- Non-degree-granting research centers, institutes, and training programs that are part of a graduate degree program. Five discipline-specific volumes detail entrance and program requirements, deadlines, costs, contacts, and special options, such as distance learning, for each program, if available. Each Guide features "The Graduate Adviser", which discusses entrance exams, financial aid, accreditation, and more. Interest in these fields has never been higher! And this is the source to the 3,400 programs currently available -- from bioengineering and computer science to construction management.

DIGITAL ELECTRONICS: PRINCIPLES AND INTEGRATED CIRCUITS - Anil K. Maini 2007

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.

Digital Electronics - Anil K. Maini 2007-09-27

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, *Digital Electronics* includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Indian Books in Print - 2003

The Circuits and Filters Handbook - Wai-Kai Chen 2002-12-23

A bestseller in its first edition, *The Circuits and Filters Handbook* has been thoroughly updated to provide the most current, most comprehensive information available in both the classical and emerging fields of circuits and filters, both analog and digital. This edition contains 29 new chapters, with significant additions in the areas of computer-

Electrical & Electronics Abstracts - 1988

Mathematical Physics - H K Dass 2008-01-01

Mathematical Physics

FUNDAMENTALS OF DIGITAL CIRCUITS - A. ANAND KUMAR, 2016-07-18

The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.

Digital Systems and Applications - Vojin G. Oklobdzija 2017-12-19

New design architectures in computer systems have surpassed industry expectations. Limits, which were once thought of as fundamental, have now been broken. *Digital Systems and Applications* details these innovations in systems design as well as cutting-edge applications that are emerging to take advantage of the fields increasingly sophisticated capabilities. This book features new chapters on parallelizing iterative heuristics, stream and wireless processors, and lightweight embedded systems. This fundamental text— Provides a clear focus on computer systems, architecture, and applications Takes a top-level view of system organization before moving on to architectural and organizational concepts such as superscalar and vector processor, VLIW architecture, as well as new trends in multithreading and multiprocessing. includes an entire section dedicated to embedded systems and their applications Discusses topics such as digital signal processing applications, circuit implementation aspects, parallel I/O algorithms, and operating systems Concludes with a look at new and future directions in computing Features articles that describe diverse aspects of computer usage and potentials for use Details implementation and performance-enhancing techniques such as branch prediction, register renaming, and virtual memory Includes a section on new directions in computing and their penetration into many new fields and aspects of our daily lives

Peterson's Guide to Graduate Programs in Engineering and Applied Sciences - 1991

Advances in Micro-Electronics, Embedded Systems and IoT - V. V. S. S. Chakravarthy 2022-04-22

This book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It contains original research works presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2021), held in Bhubaneswar, Odisha, India during 27 – 28 August 2021. The papers were written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes from all over the world and share the latest breakthroughs in and promising solutions to the most important issues facing today's society.

Index to IEEE Publications - Institute of Electrical and Electronics Engineers 1995

Issues for 1973- cover the entire IEEE technical literature.

International Books in Print - 1998

Indian Books - 1983

DIGITAL ELECTRONICS: CIRCUITS AND SYSTEMS - Puri 2000

Digital Logic Design - Brian Holdsworth 2002-11-01

New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. *A highly accessible, comprehensive and fully up to date digital systems text *A well known and respected text now revamped for current courses *Part of the Newnes suite of texts for HND/1st year modules

Indian Science Abstracts - 1993-04

Sub-threshold Design for Ultra Low-Power Systems - Alice Wang 2010-11-23

Based on the work of MIT graduate students Alice Wang and Benton Calhoun, this book surveys the field of sub-threshold and low-voltage design and explores such aspects of sub-threshold circuit design as modeling, logic and memory circuit design. One important chapter of the book is dedicated to optimizing energy dissipation - a key metric for energy constrained designs. This book also includes invited chapters on the subject of analog sub-

threshold circuits.

Nanotechnology for Water Treatment and Purification - Anming Hu 2014-07-04

This book describes the latest progress in the application of nanotechnology for water treatment and purification. Leaders in the field present both the fundamental science and a comprehensive overview of the diverse range of tools and technologies that have been developed in this critical area. Expert chapters present the unique physicochemical and surface properties of nanoparticles and the advantages that these provide for engineering applications that ensure a supply of safe drinking water for our growing population. Application areas include generating fresh water from seawater, preventing contamination of the environment and creating effective and efficient methods for remediation of polluted waters. The chapter authors are leading world-wide experts in the field with either academic or industrial experience, ensuring that this comprehensive volume presents the state-of-the-art in the integration of nanotechnology with water treatment and purification.

SSC Multi Tasking Non-Technical Guide 2021 - Arihant Experts 2021-03-25

1. The book is prepared for the SSC MTS recruitment exam 2. It is divided into 4 main sections 3. Current Affairs are provided in a separate section 4. Solved Papers & Practice Sets are given for robust practice “If a window of opportunity appears, don’t pull down the shade.” This year the Staff Selection Commission has released SSC Constable (GD) Recruitment notification about 9000 vacancies. All the aspirants who are wishing to make their in Government sector; Arihant presents the newly updated edition of “SSC Multitasking (Non – Technical) Recruitment Examination 2021” giving coverage of the whole syllabus. The Study Guide is divided into 2 Parts which are further divided into sections as per the latest syllabus. Current Affairs are also given in the separate section giving total summary of the events happening around the globe the world. Based on the exam pattern, it provides Solved Papers, giving insights of the exam questions. With the easy to understand language and student friendly notes this book is a total package of preparation. TOC Current Affairs, Solved Paper 2018, Solved Paper 2017, Solved Paper 2014, Part 1: General Intelligence and Reasoning, Numerical aptitude and General Awareness, Elementary Mathematics, General English, 2 Practice Sets

Fundamentals of Multimedia - Ze-Nian Li 2014-04-09

This textbook introduces the “Fundamentals of Multimedia”, addressing real issues commonly faced in the workplace. The essential concepts are explained in a practical way to enable students to apply their existing skills to address problems in multimedia. Fully revised and updated, this new edition now includes coverage of such topics as 3D TV, social networks, high-efficiency video compression and conferencing, wireless and mobile networks, and their attendant technologies. Features: presents an overview of the key concepts in multimedia, including color science; reviews lossless and lossy compression methods for image, video and audio data; examines the demands placed by multimedia communications on wired and wireless networks; discusses the impact of social media and cloud computing on information sharing and on multimedia content search and retrieval; includes study exercises at the end of each chapter; provides supplementary resources for both students and instructors at an associated website.

Handbook of Corporate Finance - B. Espen Eckbo 2007-05-21

Judging by the sheer number of papers reviewed in this Handbook, the empirical analysis of firms’ financing and investment decisions—empirical corporate finance—has become a dominant field in financial economics. The growing interest in everything “corporate is fueled by a healthy combination of fundamental theoretical developments and recent widespread access to large transactional data bases. A less scientific—but nevertheless important—source of inspiration is a growing awareness of the important social implications of corporate behavior and governance. This Handbook takes stock of the main empirical findings to date across an unprecedented spectrum of corporate finance issues, ranging from econometric methodology, to raising capital and capital structure

choice, and to managerial incentives and corporate investment behavior. The surveys are written by leading empirical researchers that remain active in their respective areas of interest. With few exceptions, the writing style makes the chapters accessible to industry practitioners. For doctoral students and seasoned academics, the surveys offer dense roadmaps into the empirical research landscape and provide suggestions for future work. *The Handbooks in Finance series offers a broad group of outstanding volumes in various areas of finance *Each individual volume in the series should present an accurate self-contained survey of a sub-field of finance *The series is international in scope with contributions from field leaders the world over

A Textbook of Optics - N Subrahmanyam et. al 2004

This textbook has been designed to provide necessary foundation in optics which would not only acquaint the student with the subject but would also prepare for an intensive study of advanced topics in optics at a later stage. With an emphasis on concepts, mathematical derivations have been kept at the minimum. This textbook has been primarily written for undergraduate students of B.Sc. Physics and would also be a useful resource for aspirants appearing for competitive examinations.

Dataquest - 2008

Digital Circuits And Design, 3E - Arivazhagan S Salivahanan 2009-11

The Use Of Digital Circuits Is Increasing In All Disciplines Of Engineering. Consequently Students Need To Have An In-Depth Knowledge On Them. Digital Circuits And Design Is A Textbook Dealing With The Basics Of Digital Technology Including The Design Asp

Introductory Nuclear Physics - R. K. Puri 1996

The general approach and aim of this book is to provide a brief comprehensive study of elementary nuclear physics in a coherent, simple and lucid manner. The book contains eight chapters covering topics which are generally common for undergraduate students. SI systems of units have been use in this book.

Digital Principles and Applications - Albert Paul Malvino 1986

ICICCT 2019 – System Reliability, Quality Control, Safety, Maintenance and Management - Vinit Kumar Gunjan 2019-06-27

This book discusses reliability applications for power systems, renewable energy and smart grids and highlights trends in reliable communication, fault-tolerant systems, VLSI system design and embedded systems. Further, it includes chapters on software reliability and other computer engineering and software management-related disciplines, and also examines areas such as big data analytics and ubiquitous computing. Outlining novel, innovative concepts in applied areas of reliability in electrical, electronics and computer engineering disciplines, it is a valuable resource for researchers and practitioners of reliability theory in circuit-based engineering domains.

Open-Source Electronics Platforms - Trung Dung Ngo 2019-05-20

Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of open-source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

OFDM Baseband Receiver Design for Wireless Communications - Tzi-Dar Chiueh 2008-04-15

Orthogonal frequency-division multiplexing (OFDM) access schemes are becoming more prevalent among cellular

and wireless broadband systems, accelerating the need for smaller, more energy efficient receiver solutions. Up to now the majority of OFDM texts have dealt with signal processing aspects. To address the current gap in OFDM integrated circuit (IC) instruction, Chiueh and Tsai have produced this timely text on baseband design. OFDM Baseband Receiver Design for Wireless Communications covers the gamut of OFDM technology, from theories and algorithms to architectures and circuits. Chiueh and Tsai give a concise yet comprehensive look at digital communications fundamentals before explaining modulation and signal processing algorithms in OFDM receivers. Moreover, the authors give detailed treatment of hardware issues -- from design methodology to physical IC implementation. Closes the gap between OFDM theory and implementation Enables the reader to transfer communication receiver concepts into hardware design wireless receivers with acceptable implementation loss achieve low-power designs Contains numerous figures to illustrate techniques Features concrete design examples of MC-CDMA systems and cognitive radio applications Presents theoretical discussions that focus on concepts rather than mathematical derivation Provides a much-needed single source of material from numerous papers Based on course materials for a class in digital communication IC design, this book is ideal for advanced undergraduate or post-graduate students from either VLSI design or signal processing backgrounds. New and experienced engineers in industry working on algorithms or hardware for wireless communications devices will also find this book to be a key reference.

Big Data Analytics in Astronomy, Science, and Engineering - Shelly Sachdeva 2023-03-18

This book constitutes the proceedings of the 10th International Conference on Big Data Analytics, BDA 2022, which took place in a hybrid mode during December 2022 in Aizu, Japan. The 14 full papers included in this volume were carefully reviewed and selected from 70 submissions. They were organized in topical sections as

Fundamentals and Emerging Applications of Polyaniline

follows: big data analytics, networking, social media, search, information extraction, image processing and analysis, spatial, text, mobile and graph data analysis, machine learning, and healthcare.

- Masoud Mozafari 2019-08-09

Fundamentals and Emerging Applications of Polyaniline presents in-depth coverage of synthetic routes, characterization tools, experimental procedures, and the preparation of PANI-based materials for advanced applications. Sections examine the various synthetic routes available for the polymerization of aniline, covering both conventional methods and new approaches, specific PANI-based materials, and their potential applications. Users will be able to understand how to use these methods in areas such as electromagnetic interference shielding, rechargeable batteries, light emitting diodes, super capacitors, anti-static packaging and coatings, photonics, biomedical applications, chemical and biochemical sensors. This is a highly valuable source of information for researchers, scientists and graduate students in polymer science, polymer composites, polymer chemistry, nanotechnology, physics and materials science. Covers the latest synthetic approaches, such as ultrasound-assisted polymerization, irradiation path and electrochemical polymerization Offers detailed information on PANI-based composites, including graphene, CNT and functionalized polyaniline Explains how different PANI-based materials can be geared for specific cutting-edge applications across a range of fields

Solid State Physics and Electronics - RK Puri | VK Babbar 2008

The present edition is brought up to incorporate the useful suggestions from a number of readers and teachers for the benefit of students. A topic on common-collector configuration is added to the chapter XIII. A new chapter on logic gates is introduced at the end. Keeping in view the present style of university Question papers, a number of very short, short and long thoroughly revised and corrected to remove the errors which crept into earlier editions.