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International Books in Print

Journal of Scientific and Industrial Research

Bulletin of the Institution of Engineers (India).

International Aerospace Abstracts

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Operational Amplifiers & Linear Integrated Circuits

Pearson Educación "In this fifth edition, we not only have kept the standard 741 op amp but also have shown many circuits with newer, readily available op amps because these have largely overcome the dc and ac limitations of the older types. We preserved or objective of simplifying the process of learning about applications involving signal conditioning, signal generation, filters, instrumentation, and control circuits. But we have oriented this fifth edition to reflect the evolution of analog circuits into those applications whose purpose is to condition signals from transducers or other sources into form suitable for presentation to a microcontroller or computer. In addition, we have added examples of circuit simulation using PSpice throughout this edition."-- Introduction.

Electronic Measurements and Instrumentation

Pearson Education India Electronic Measurements and Instrumentation provides a comprehensive blend of the theoretical and practical aspects of electronic measurements and instrumentation. Spread across eight chapters, this book provides a comprehensive coverage of each topic in the syllabus with a special focus on oscilloscopes and transducers. The key features of the book are clear illustrations and circuit diagrams for enhanced comprehension; points to remember that help students grasp the essence of each chapter; objective-type questions, review questions, and unsolved problems provided at the end of each chapter, which help students prepare for competitive examinations; solved numerical problems and examples are provided, which enable the reader to understand design aspects better and to enable students to comprehend basic principles; and summaries at the end of each chapter that help students recapitulate all the concepts learnt.

PULSE AND DIGITAL CIRCUITS

PHI Learning Pvt. Ltd. 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

Artificial Intelligence Abstracts

Expert Clouds and Applications

Proceedings of ICOECA 2021

Springer Nature This book features original papers from International Conference on Expert Clouds and Applications (ICOECA 2021), organized by GITAM School of Technology, Bangalore, India during February 18–19, 2021. It covers new research insights on artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and artificial intelligence technologies.

Low-Power VLSI Circuits and Systems

Springer The book provides a comprehensive coverage of different aspects of low power circuit synthesis at various levels of design hierarchy; starting from the layout level to the system level. For a seamless understanding of the subject, basics of MOS circuits has been introduced at transistor, gate and circuit level; followed by various low-power design methodologies, such as supply voltage scaling, switched capacitance minimization techniques and leakage power minimization approaches. The content of this book will prove useful to students, researchers, as well as practicing engineers.

Nonlinear Dynamics

Integrability, Chaos and Patterns

Springer Science & Business Media This self-contained treatment covers all aspects of nonlinear dynamics, from fundamentals to recent developments, in a unified and comprehensive way. Numerous examples and exercises will help the student to assimilate and apply the techniques presented.

VLSI Design

I. K. International Pvt Ltd Aimed primarily for undergraduate students pursuing courses in VLSI design, the book emphasizes the physical understanding of underlying principles of the subject. It not only focuses on circuit design process obeying VLSI rules but also on technological aspects of Fabrication. VHDL modeling is discussed as the design engineer is expected to have good knowledge of it. Various Modeling issues of VLSI devices are focused which includes necessary device physics to the required level. With such an in-depth coverage and practical approach practising engineers can also use this as ready reference.

The Design of CMOS Radio-Frequency Integrated Circuits

Cambridge University Press This book, first published in 2004, is an expanded and revised edition of Tom Lee's acclaimed RFIC text.

High Voltage Engineering

Lingua TOEFL CBT Insider

Lingua Forum Incorporated "Providing diagnostic tests, practical exercises, helpful hints for improving scores, and explanations of the listening, reading, and writing sections of the test, this detailed TOEFL CBT primer covers all elements of effective test preparation. Useful insider tips such as time management during the test, frequency of question types, and TOEFL CBT scoring are offered. Listening scripts, answer keys, and answer explanations are included."

Basic Electrical Engineering

S. Chand Publishing This book is designed based on revised syllabus of Gujarat Technological University, Gujarat (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

Circuit and Network Theory—GATE, PSUS AND ES Examination

Vikas Publishing House Test Prep for Circuit and Network Theory—GATE, PSUS AND ES Examination

Engineering Mathematics

Volume III

Pearson Education India Mathematics lays the basic foundation for engineering students to pursue their core subjects. In Engineering Mathematics-III , the topics have been dealt with in a style that is lucid and easy to understand, supported by illustrations that enable the student to assimilate the concepts effortlessly. Each chapter is replete with exercises to help the student gain a deep insight into the subject. The nuances of the subject have been brought out through more than 300 well-chosen, worked-out examples interspersed across the book.

Industrial Communication Systems

CRC Press The Industrial Electronics Handbook, Second Edition, Industrial Communications Systems combines traditional and newer, more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Modern communication systems in factories use many different—and increasingly sophisticated—systems to send and receive information. Industrial Communication Systems spans the full gamut of concepts that engineers require to maintain a well-designed, reliable communications system that can ensure successful operation of any production process. Delving into the subject, this volume covers: Technical principles Application-specific areas Technologies Internet programming Outlook, including trends and expected challenges Other volumes in the set: Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems

Control of Synchronous Motors

John Wiley & Sons Synchronous motors are indubitably the most effective device to drive industrial production systems and robots with precision and rapidity. Their control law is thus critical for combining at the same time high productivity to reduced energy consummation. As far as possible, the control algorithms must exploit the properties of these actuators. Therefore, this work draws on well adapted models resulting from the Park's transformation, for both the most traditional machines with sinusoidal field distribution and for machines with non-sinusoidal field distribution which are more and more used in industry. Both, conventional control strategies like vector control (either in the synchronous reference frame or in the rotor frame) and advanced control theories like direct control and predictive control are thoroughly presented. In this context, a significant place is reserved to sensorless control which is an important and critical issue in tomorrow's motors.

ELECTROMAGNETISM

Theory and Applications

PHI Learning Pvt. Ltd. The second edition of Electromagnetism: Theory and Applications has been updated to cover some additional aspects of theory and nearly all modern applications. The semi-historical approach is unchanged, but further historical comments have been introduced at various places in the book to give a better insight into the development of the subject as well as to make the study more interesting and palatable to the students. What is New to This Edition Vector transformations in different coordinate systems have been included in the chapter on Vector Analysis. The treatment forms the basis of vector potentials for three-dimensional problems. Chapter 13 on Vector Potentials has been significantly expanded for a clear understanding of the properties of vector potentials, in order to also solve three-dimensional EM problems numerically. A section dealing with the derivation and interpretation of Hertz Vector has been included in Chapter 13. A practical problem on induction heating of flat metal plates has been added to the chapter on Magnetic Diffusion. The topics of wave guidance and radiation have been expanded with emphasis on practical aspects. Sections on analysis of cylindrical dielectric waveguide (e.g. of optical fibres) have been added to Chapters 18 and 22. New sections on basis and explanations of modal transmissions have been added. Characteristics and practical details of basic antenna structures and arrays have been treated in greater detail. Provides comprehensive treatment of FEM (Finite Element Method), covering both its

variational basis and procedural details, to enable the readers to use this method without going into the heavy mathematics underlying the method. Describes FDM (Finite Difference Method) in more detail with its convergence requirement. Introduces modern numerical methods like FDTD (Finite Difference Time Domain) and method of moments (MOM). A new chapter on Modern Topics and Applications covers both high frequency and low frequency applications. Appendices contain in-depth analysis of self-inductance and non-conservative fields (Appendix 6), proof regarding the boundary conditions (Appendix 8), theory of bicylindrical coordinate system to provide the physical basis of the circuit approach to the cylindrical transmission line systems (Appendix 10), and properties of useful functions like Bessel and Legendre functions (Appendix 9). The book is designed to serve as a core text for students of electrical engineering. Besides, it will be useful to postgraduate physics students as well as research engineers and design and development engineers in industries.

Modern Telemetry

IntechOpen Telemetry is based on knowledge of various disciplines like Electronics, Measurement, Control and Communication along with their combination. This fact leads to a need of studying and understanding of these principles before the usage of Telemetry on selected problem solving. Spending time is however many times returned in form of obtained data or knowledge which telemetry system can provide. Usage of telemetry can be found in many areas from military through biomedical to real medical applications. Modern way to create a wireless sensors remotely connected to central system with artificial intelligence provide many new, sometimes unusual ways to get a knowledge about remote objects behaviour. This book is intended to present some new up to date accesses to telemetry problems solving by use of new sensors conceptions, new wireless transfer or communication techniques, data collection or processing techniques as well as several real use case scenarios describing model examples. Most of book chapters deals with many real cases of telemetry issues which can be used as a cookbooks for your own telemetry related problems.

Powerful Vocabulary Builder

This book aims at helping students to fulfill their need for vocabulary building and retaining newly learnt words for long term usage. The book is particularly recommended for those students who are appearing for various competitive examinations like SAT, IELTS, TOEFL, GRE, GMAT etc. and those who wish to enhance their communication skills.

ELECTRICAL POWER SYSTEMS

ANALYSIS, SECURITY AND DEREGULATION

PHI Learning Pvt. Ltd. This textbook introduces electrical engineering students to the most relevant concepts and techniques in three major areas today in power system engineering, namely analysis, security and deregulation. The book carefully integrates theory and practical applications. It emphasizes power flow analysis, details analysis problems in systems with fault conditions, and discusses transient stability problems as well. In addition, students can acquire software development skills in MATLAB and in the usage of state-of-the-art software tools such as Power World Simulator (PWS) and Siemens PSS/E. In any energy management/operations control centre, the knowledge of contingency analysis, state estimation and optimal power flow is of utmost importance. Part 2 of the book provides comprehensive coverage of these topics. The key issues in electricity deregulation and restructuring of power systems such as Transmission Pricing, Available Transfer Capability (ATC), and pricing methods in the context of Indian scenario are discussed in detail in Part 3 of the book. The book is interspersed with problems for a sound understanding of various aspects of power systems. The questions at the end of each chapter are provided to reinforce the knowledge of students as well as prepare them from the examination point of view. The book will be useful to both the undergraduate students of electrical engineering and postgraduate students of power engineering and power management in several courses such as Power System Analysis, Electricity Deregulation, Power System Security, Restructured Power Systems, as well as laboratory courses in Power System Simulation.

Introduction to Modern Optics

Courier Corporation A complete basic undergraduate course in modern optics for students in physics, technology, and engineering. The first half deals with classical physical optics; the second, quantum nature of light. Solutions.

Earth and Atmospheric Disasters Management Natural

and Man-Made

Preface Acknowledgements Abbreviations and Acronyms Introduction Chapter -1 Disaster Management Plan (DMP) - General Chapter - 2 Cyclones and their Hazard Potential Chapter-3 India Meteorological Department and Cyclone Warnings in India Chapter-4 Cyclones Disaster Management - Plan Chapter-5 Action Plan for Cyclone Disaster Management Chapter-6 Role of Different Institutions in Natural Disaster Management Chapter-7 The Role of Defence and other Services in Disaster Management Chapter-8 Floods Chapter - 9 Drought Chapter-10 Earth quakes Chapter -11 Hazards associated with Convective Clouds Chapter-12 Environmental Pollution Chapter-13 Aviation Hazards and Safety Measures Chapter-14 Modern Aids of Communication and Detection Chapter-15 A Glance at Disaster Management Act - 2005 References Index

Spoken English

Orient Blackswan This is a helpful book for teachers and students who wish to improve their English pronunciation, and acquire the correct patterns of accent, rhythm, and intonation.

Professional Ethics and Human Values

Firewall Media

Winning At Interviews

Pearson Education India

A COURSE IN PHONETICS AND SPOKEN ENGLISH

PHI Learning Pvt. Ltd. This much improved revised edition of the book takes into account the needs of the student in the context of the present curricula followed in various universities and English language teaching institutes. This edition therefore devotes a new chapter to Assimilation, a section to Tones in relation to Attitudes, and highlights certain important aspects of pronunciation, such as rules of word accentuation.Starting with general phonetics, the book goes on to give a brief functional account of general phonology

and then a selective and yet fairly exhaustive description of the phonetics and phonology of English. It also provides a number of conversational passages in phonetic script as well as in ordinary spelling for practice in reading aloud. What sets this text apart is its novelty of approach and lucidity of treatment. English pronunciation is followed as per the "Received Pronunciation of England". This text is specially designed for postgraduate students of English, undergraduate and postgraduate students of Linguistics, and for those undergoing secondary and tertiary level teachers' training programmes in English.

Sliding Mode Control in Electro-Mechanical Systems

CRC Press Apply Sliding Mode Theory to Solve Control Problems Interest in SMC has grown rapidly since the first edition of this book was published. This second edition includes new results that have been achieved in SMC throughout the past decade relating to both control design methodology and applications. In that time, Sliding Mode Control (SMC) has continued to gain increasing importance as a universal design tool for the robust control of linear and nonlinear electro-mechanical systems. Its strengths result from its simple, flexible, and highly cost-effective approach to design and implementation. Most importantly, SMC promotes inherent order reduction and allows for the direct incorporation of robustness against system uncertainties and disturbances. These qualities lead to dramatic improvements in stability and help enable the design of high-performance control systems at low cost. Written by three of the most respected experts in the field, including one of its originators, this updated edition of Sliding Mode Control in Electro-Mechanical Systems reflects developments in the field over the past decade. It builds on the solid fundamentals presented in the first edition to promote a deeper understanding of the conventional SMC methodology, and it examines new design principles in order to broaden the application potential of SMC. SMC is particularly useful for the design of electromechanical systems because of its discontinuous structure. In fact, where the hardware of many electromechanical systems (such as electric motors) prescribes discontinuous inputs, SMC becomes the natural choice for direct implementation. This book provides a unique combination of theory, implementation issues, and examples of real-life applications reflective of the authors' own industry-leading work in the development of robotics, automobiles, and other technological breakthroughs.

Artificial Intelligence and Evolutionary Computations in

Engineering Systems

Proceedings of ICAIECES 2017

Springer The book is a collection of high-quality peer-reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES 2017). The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academia and industry have presented their original work and ideas, information, techniques and applications in the field of communication, computing and power technologies.

Engineering Mathematics: Volume II

Pearson Education India

Microelectronics, Circuits and Systems

Select Proceedings of 7th International Conference on Micro2020

Springer Nature This book presents a collection of peer-reviewed articles from the 7th International Conference on Microelectronics, Circuits, and Systems – Micro 2020. The volume covers the latest development and emerging research topics of material sciences, devices, microelectronics, circuits, nanotechnology, system design and testing, simulation, sensors, photovoltaics, optoelectronics, and its different applications. This book also deals with several tools and techniques to match the theme of the conference. It will be a valuable resource for researchers, professionals, Ph.D. scholars, undergraduate and postgraduate students working in Electronics, Microelectronics, Electrical, and Computer Engineering.

Basic Vocabulary:

Pearson Education India The second edition of Basic Vocabulary is a comprehensive package as it addresses all the needs of students who want an all-round improvement of their vocabulary. It is scientifically structured and carefully designed so that you spend less time to grasp more. Whether you want to learn new keywords, do a quick revision, or take an assessment test, this book serves all your purposes. It presents effective methodology to build upon your existing level of proficiency. Master the techniques of learning new words given in this book and continue your exploration of wonderful world of words and their meanings.

Experimental Aerodynamics

CRC Press Experimental Aerodynamics provides an up to date study of this key area of aeronautical engineering. The field has undergone significant evolution with the development of 3D techniques, data processing methods, and the conjugation of simultaneous measurements of multiple quantities. Written for undergraduate and graduate students in Aerospace Engineering, the text features chapters by leading experts, with a consistent structure, level, and pedagogical approach. Fundamentals of measurements and recent research developments are introduced, supported by numerous examples, illustrations, and problems. The text will also be of interest to those studying mechanical systems, such as wind turbines.

Advanced Engineering Mathematics with MATLAB

CRC Press In the four previous editions the author presented a text firmly grounded in the mathematics that engineers and scientists must understand and know how to use. Tapping into decades of teaching at the US Navy Academy and the US Military Academy and serving for twenty-five years at (NASA) Goddard Space Flight, he combines a teaching and practical experience that is rare among authors of advanced engineering mathematics books. This edition offers a smaller, easier to read, and useful version of this classic textbook. While competing textbooks continue to grow, the book presents a slimmer, more concise option. Instructors and students alike are rejecting the encyclopedic tome with its higher and higher price aimed at undergraduates. To assist in the choice of topics included in this new edition, the author reviewed the syllabi of various engineering mathematics courses that are taught at a wide variety of schools. Due to time constraints an instructor can select perhaps three to four topics from the book, the most likely being ordinary differential equations, Laplace transforms, Fourier series and separation of variables to solve the wave, heat, or Laplace's

equation. Laplace transforms are occasionally replaced by linear algebra or vector calculus. Sturm-Liouville problem and special functions (Legendre and Bessel functions) are included for completeness. Topics such as z-transforms and complex variables are now offered in a companion book, Advanced Engineering Mathematics: A Second Course by the same author. MATLAB is still employed to reinforce the concepts that are taught. Of course, this Edition continues to offer a wealth of examples and applications from the scientific and engineering literature, a highlight of previous editions. Worked solutions are given in the back of the book.

Advances In The Chemistry And Physics Of Materials: Overview Of Selected Topics

World Scientific Advances in the Chemistry and Physics of Materials is a compilation of topics on the recent developments in the areas of Materials Science.Materials Science has been a subject of major interest which has garnered significant attention over the years. Chemists and physicists have contributed extensively to this frontier research area and their synergistic efforts have led to the discovery of many new, exciting materials involving novel functions. In the light of the growing importance of the field of Materials Science, and owing to the fact that it is a subject that holds a lot of promise, internationally renowned Materials Chemist Prof. C.N.R Rao along with his colleagues at the School of Advanced Materials, at JNCASR, have compiled the contents of this book to highlight and showcase the emerging trends in materials science.It touches upon topics spanning over nanomaterials and various other classes of energy materials for harvesting, storage and conversion. The relatively new and exciting range of materials such as supramolecular, soft and biomaterials have been introduced and elucidated, in the book. Special emphasis has been laid on the synthesis, phenomena and characterization of these kinds of materials. Theoretical and Computational Chemistry has played an important role in the growth of Materials Science as a discipline, and the book covers a special topical session on the theoretical efforts in materials research.The book, packed with theory and practical aspects in a crisp and concise manner, aims to take the reader on an intense scientific expedition. The compilation provides an insight into the chemistry and physics of materials and presents up-to-date status reports which would, undoubtedly, be useful to practitioners, teachers and students.

A Textbook of English Phonetics for Indian Students

Macmillan A detailed textbook of English phonetics with comprehensive information about general phonetics which will make the reader s task of understanding English phonetics better. Plenty of examples are drawn from Indian languages to illustrate the points made.