

Electronics B R Gupta

Power Electronics (5th Edition)
 Digital Electronics
 Electric Energy Systems
 Fundamentals of Electronics
 Digital Electronics
 Semiconductor Material and Device Characterization
 Industrial Automation and Robotics
 Basic Electrical Engineering
 Electric Energy
 Principles of Electrical, Electronics and Instrumentation Engineering
 Elements of Electrical Engineering (gtu).
 Power System
 Basic Electrical and Electronics Engineering:
 Fundamentals of Electric Machines
 ELECTRICAL ENGINEERING FUNDAMENTALS.
 Understanding Telephone Electronics
 Electrical Machines
 Understanding Automotive Electronics
 Electronic Devices And Circuits
 Objective Electrical Engineering
 Transforming Higher Education Through Digitalization
 Monochrome and Colour Television
 Keep Sharp
 Transmission & Distribution Of Electrical Power
 Question Bank in Electronics & Communication Engineering
 Basic Electronics
 Encyclopaedia of India, Pakistan and Bangladesh
 Electrical Science
 An Integrated Course In Electronics Engg.
 Power System Operation & Control:
 Switchgear and Protection
 Change
 The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies
 Advances in Modern Sensors
 Basic Electronics and Linear Circuits
 Generation of Electrical Energy, 7th Edition
 Microprocessors and Microcontrollers
 Electronics and Instrumentation
 Principles Of Electrical Engineering And Electronics
 Power Electronics Semiconductor Switches

Electronics B R Gupta

Downloaded from intra.itu.edu by guest

MYA JAMAL

Power Electronics (5th Edition) Cambridge University Press

Sensors are integral to modern living and are found in a huge number of applications in science, engineering and technology thus it is critical for scientists and technologists to understand the physical principles behind sensor types as well as their characteristics, applications, and how they can be suitably employed in sensor technologies. Whilst there exists a vast literature on the physics and characteristics of traditional sensors, this book provides a broad overview of the range of sensor technologies and attendant topics needed to optimise and utilise these devices in the modern world. Not only reviewing sensors by classification, the book encompasses the physics, design characteristics, simulation and interface electronics, and it includes case studies, future challenges and several other aspects of wider sensor technology to provide an overview of modern sensors and their applications. The broad scope will appeal to industrial and academic researchers

and application engineers, especially those developing and implementing real-time hardware implementations employing smart sensors for emerging applications. Key Features Features a broad review of sensor types, including MEMS, wearable and smart sensors Presents application of modern sensors and emerging research directions Incorporates case studies Reviews wider associated technologies such as simulation, materials and interface electronics Interdisciplinary appeal making the text suitable for industrial and academic researchers as well as application engineers

Digital Electronics CRC Press

Power Electronic Semiconductor Switches is the successor to Professor Ramshaw's widely-used Power Electronics. The text has been completely re-written and expanded to focus on semiconductor switches, and to take into account advances in the field since the publication of Power Electronics and changes in electrical and electronic engineering syllabuses.

Electric Energy Systems S. Chand Publishing

The Text Is Based On The Ccir 625-B Monochrome (Black & White) And Pal-B And G Colour

Television Standards As Adopted By India And Many Other Countries. The American And French Tv Systems Have Also Been Given Due Coverage While Presenting Various Aspects Of The Subject Starting From Television Camera To The Receiver Picture Tube.Keeping In View The Fact That Colour And Monochrome Telecasts Will Co-Exist In India For At Least A Decade, The Author Has Included Relevant Details And Modern Techniques Of Both The Systems.Conceptually The Book May Be Considered To Have Four Sections. The Initial Chapters (1 To 10) Are Devoted To The Essentials Of Transmission, Reception And Applications Of Television Without Involving Detailed Circuitry. The Next 14 Chapters (11 To 24) Explain Basic Design Considerations And Modern Circuitry Of Various Sections Of The Receiver. Topics Like Tv Games, Cable Television, Cctv, Remote Control, Automatic Frequency Tuning, Automatic Brightness Control, Electronic Touch Tuning Etc. Are Also Discussed.The Third Section (Chapters 25 And 26) Is Exclusively Devoted To The Colour Television Transmission And Reception. All The Three Colour Television Systems Have Been Described. Chapters 27 To 30 Are Devoted To Complete Receiver Circuits-Both Monochrome And Colour, Electronic Instruments Necessary For Receiver Manufacture And Servicing, Alignment

Procedure, Fault Finding And Servicing Of Black & White And Colour Receivers. The Complete Text Is Presented In A Way That Students Having Basic Knowledge Of Electronics Will Find No Difficulty In Grasping The Complexities Of Television Transmission And Reception.

Fundamentals of Electronics John Wiley & Sons

This updated edition presents an introduction to the multidisciplinary field of automation and robotics for industrial applications. The book initially covers the important concepts of hydraulics and pneumatics and how they are used for automation in an industrial setting. It then moves to a discussion of circuits and using them in hydraulic, pneumatic, and fluidic design. The latter part of the book deals with electric and electronic controls in automation and final chapters are devoted to robotics, robotic programming, and applications of robotics in industry. New chapters on UAVs (Ch. 19) and AI in Industrial Automation (Ch. 20) are featured. The companion files include numerous video tutorial projects. FEATURES: Begins with introductory concepts on automation, hydraulics, and pneumatics Features new chapters on UAVs (Ch. 19) and AI in Industrial Automation (Ch. 20) Covers sensors, PLC's, microprocessors, transfer devices and feeders, robotic sensors, robotic grippers, and robot programming Companion files have video projects, history of robotics, and figures from the text

Digital Electronics Prentice Hall

It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country. In the revised edition some new topics have been added. Additional solved examples have also been added. The data of transmission system in India has been updated.

Semiconductor Material and Device Characterization Oxford University Press, USA

Offers key concepts of electrical machines embedded with solved examples, review questions, illustrations and open book questions.

Industrial Automation and Robotics Upkar Prakashan

Power System Operation and Control is a comprehensive text designed for an undergraduate course in electrical engineering. Written in a simple and easy-to-understand manner, the book introduces the reader to economic operation of power system and r

Basic Electrical Engineering S. Chand Publishing

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

Electric Energy CRC Press

Generation of Electrical Energy is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field. The subject itself is now rejuvenated with important new developments. With this in view, the book covers conventional topics like load curves, steam generation, hydro-generation parallel operation as well as new topics like new sources of energy generation, hydrothermal coordination, static reserve reliability evaluation among others.

Principles of Electrical, Electronics and Instrumentation Engineering Gyan Publishing House

Electric Energy Systems, Second Edition provides an analysis of electric generation and transmission systems that addresses diverse regulatory issues. It includes fundamental background topics, such as load flow, short circuit analysis, and economic dispatch, as well as advanced topics, such as harmonic load flow, state estimation, voltage and frequency control, electromagnetic transients, etc. The new edition features updated material throughout the text and new sections throughout the chapters. It covers current issues in the industry, including renewable generation with associated control and scheduling problems, HVDC transmission, and use of synchrophasors (PMUs). The text explores more sophisticated protections and the new roles of demand, side management, etc. Written by internationally recognized specialists, the text contains a wide range of worked out examples along with numerous exercises and solutions to enhance understanding of the material. Features Integrates technical and economic analyses of electric energy systems. Covers HVDC transmission. Addresses renewable generation and the associated control and scheduling problems. Analyzes electricity markets, electromagnetic transients, and harmonic load flow. Features new sections and updated material throughout the text. Includes examples and solved problems.

Elements of Electrical Engineering (gtu). Stylus Publishing, LLC

For close to 30 years, □Basic Electrical Engineering□ has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language

coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Power System S. Chand Publishing

This book, *Electronic Devices and Circuit Application*, is the first of four books of a larger work, *Fundamentals of Electronics*. It is comprised of four chapters describing the basic operation of each of the four fundamental building blocks of modern electronics: operational amplifiers, semiconductor diodes, bipolar junction transistors, and field effect transistors. Attention is focused on the reader obtaining a clear understanding of each of the devices when it is operated in equilibrium. Ideas fundamental to the study of electronic circuits are also developed in the book at a basic level to lessen the possibility of misunderstandings at a higher level. The difference between linear and non-linear operation is explored through the use of a variety of circuit examples including amplifiers constructed with operational amplifiers as the fundamental component and elementary digital logic gates constructed with various transistor types. *Fundamentals of Electronics* has been designed primarily for use in an upper division course in electronics for electrical engineering students. Typically such a course spans a full academic year consisting of two semesters or three quarters. As such, *Electronic Devices and Circuit Applications*, and the following two books, *Amplifiers: Analysis and Design* and *Active Filters and Amplifier Frequency Response*, form an appropriate body of material for such a course. Secondary applications include the use in a one-semester electronics course for engineers or as a reference for practicing engineers.

Basic Electrical and Electronics Engineering: W. W. Norton & Company

Electronic Tubes|Semiconductor Devices|Diode Circuits|Amplifier Circuits|Oscillator

Circuits|Thyristor Circuits|Ic And Operational Amplifiers|Logic Circuits And Number

Systems|Electrical Instruments|Electronic Instruments|Transducers|Appendices(A) Obj

Fundamentals of Electric Machines Springer Nature

Higher education is dynamic, constantly adapting to meet the requirements of students and industry. Transforming Higher Education Through Digitalization: Insights, Tools, and Techniques provides insights from experienced academicians on the digitalization of education and its appropriateness for enhancing the quality of teaching in institutions of higher education. The book also provides insights on technologies used in digital education, the competencies and skills required by teachers and students, managing quality of education through online modes, MOOCs (Massive, Open, Online Courses), and methods to support teachers and instructors in online education. The book also enables teachers and instructors to help students develop the knowledge and skills they need in a digital age and enable them to build collaborative learning that will bring them success. Written for educators, students, and policy makers of higher education, this book demonstrates how to transform traditional education to digital education and to continue their activities without the requirement of students and teachers meeting each other on campus.

ELECTRICAL ENGINEERING FUNDAMENTALS. John Wiley & Sons

The Authors are the firm view that it is not possible to acquire a through understanding of the subject without solving a large number of numerical problems. Moreover, the students should also learn to present the results in an orderly manner and attach proper units to the results. To achieve this goal, a large number of solved examples and unsolved problems (with Answer) have been included in each chapter. A summary of important formulae derived and used in different chapters is added in Appendix B to serve as a ready reference. Important formulae in trigonometry, differential and integral calculus and values of important constants are also included in the appendices.

Understanding Telephone Electronics S. Chand Publishing

The big stories -- The skills of the new machines : technology races ahead -- Moore's law and the second half of the chessboard -- The digitization of just about everything -- Innovation : declining or recombining? -- Artificial and human intelligence in the second machine age -- Computing bounty -- Beyond GDP -- The spread -- The biggest winners : stars and superstars -- Implications of the bounty and the spread -- Learning to race with machines : recommendations for individuals -- Policy recommendations -- Long-term recommendations -- Technology and the future (which is very different from "technology is the future").

Electrical Machines Simon and Schuster

This Third Edition updates a landmark text with the latest findings. The Third Edition of the internationally lauded *Semiconductor Material and Device Characterization* brings the text fully up-to-date with the latest developments in the field and includes new pedagogical tools to assist readers. Not only does the Third Edition set forth all the latest measurement techniques, but it also examines new interpretations and new applications of existing techniques. *Semiconductor Material and Device Characterization* remains the sole text dedicated to characterization techniques for measuring semiconductor materials and devices. Coverage includes the full range of electrical and optical characterization methods, including the more specialized chemical and physical techniques. Readers familiar with the previous two editions will discover a thoroughly revised and updated Third Edition, including: Updated and revised figures and examples reflecting the most current data and information 260 new references offering access to the latest research and discussions in specialized topics New problems and review questions at the end of each chapter to test readers' understanding of the material In addition, readers will find fully updated and revised sections in each chapter. Plus, two new chapters have been added: Charge-Based and Probe Characterization introduces charge-based measurement and Kelvin probes. This chapter also examines probe-based measurements, including scanning capacitance, scanning Kelvin force, scanning spreading resistance, and ballistic electron emission microscopy. Reliability and Failure Analysis examines failure times and distribution functions, and discusses electromigration, hot carriers, gate oxide integrity, negative bias temperature instability, stress-induced leakage current, and electrostatic discharge. Written by an internationally recognized authority in the field, *Semiconductor Material and Device Characterization* remains essential reading for graduate students as well as for professionals working in the field of semiconductor devices and materials. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Understanding Automotive Electronics Pearson Education India

This Book Presents A Comprehensive Exposition Of The Theory, Performance And Analysis Of Electric Machines. Transformers Alongwith Other Machines Including Ac And Dc, Synchronous, 3 Phase And Single Phase Induction, Commutator, Special Machines And Solid State Control Have All Been Explained In A Simple And Friendly Style. A Balance Between The Mathematical And The Qualitative Aspects Has Been Kept Throughout The Book. A Large Variety Of Solved Examples Are Included To Illustrate The Basic Concepts And Techniques. Unsolved Problems And Objective Questions Have Also Been Presented At The End Of Each Chapter. The Third Edition Also Includes :

- * Wide Band Transformers
- * Phase Groups Of 3-Phase Transformers
- * Synchronous Reactor And Synchronous Frequency Changer
- * Speed Control Of 3-Phase Induction Motor
- * Operation Of 3-Phase Induction Motor With Unbalanced Supply Voltages
- * Additional Solved And Unsolved Problems

* All These Features Make This Book An Ideal Text For Undergraduate Electrical, Electronics And Computer Engineering Students. Upsc And Amie Candidates Would Also Find The Book Extremely Useful.

Electronic Devices And Circuits John Wiley & Sons

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.

Objective Electrical Engineering New Age International

This book *Principles of Electrical, Electronics, and Instrumentation Engineering* presents a

comprehensive, intuitive, conceptual, and hand-on introduction with an emphasis on creative problem-solving. The book is an attempt that has been made to keep each topic very simple and self-explanatory.

Best Sellers - Books :

- [Happy Place By Emily Henry](#)
- [World Of Eric Carle, Around The Farm 30-button Animal Sound Book - Great For First Words - Pi Kids](#)
- [Blowback: A Warning To Save Democracy From The Next Trump](#)
- [Fourth Wing \(the Empyrean, 1\)](#)
- [Twisted Love \(twisted, 1\)](#)
- [Blowback: A Warning To Save Democracy From The Next Trump By Miles Taylor](#)
- [The 48 Laws Of Power](#)
- [To Kill A Mockingbird By Harper Lee](#)
- [Are You There God? It's Me, Margaret.](#)
- [If Animals Kissed Good Night](#)