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Artificial Intelligence in Information and Communication Technologies, Healthcare and Education
 How Computers Really Work
 Basic Electronics - Second Edition
 Integrated Circuit Quality and Reliability
 Electronics For Dummies
 Newnes Electronics Circuits Pocket Book (Linear IC)
 Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English
 DIGITAL DESIGN
 Electronics For Dummies
 Reliability and Risk Assessment in Engineering
 Extreme Fundamentals of Technology
 Electronics For Kids For Dummies
 Digital Integrated Circuit Design
 Digital Fundamentals and Applications
 Introduction to Digital Electronics
 Electronics All-in-One For Dummies
 Introduction to Mechatronics
 Starting Electronics Construction
 Industrial Electronics and Control
 Television IC Data Files
 MICROPROCESSOR 8085
 ELECTRONICS LAB MANUAL (VOLUME 2)
 Biosensors and Bioelectronics
 Analog & Digital Principles & Applications (Physics - Paper 2)
 Electronics Projects Vol. 19
 Over 50 Exciting Electronics Experiments
 Reliability, Safety and Hazard Assessment for Risk-Based Technologies
 Audio IC Projects
 Fundamentals of Object-oriented Design in UML
 Digital Principles and Logic Design Techniques
 Arduino Workshop, 2nd Edition
 Digital Principles and Logic Design
 Communication System Engineering Using MATLAB
 PC Interfacing
 Digital Design and Computer Organization
 PRACTICAL PHYSICS
 Arduino Workshop
 Electricity and Electronics Fundamentals, Second Edition
 Digital Electronics
 Electronics For Dummies

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YOSEF LYRIC

Artificial Intelligence in Information and Communication Technologies, Healthcare and Education Singular

The book covers the complete syllabus of subject as suggested by most of the universities in India. Proper balance between mathematical details and qualitative discussion. Subject matter in each chapter develops systematically from inceptions. Large number of carefully selected worked examples in sufficient details. Each chapter of the book is saturated with much needed test supported by neat and self-explanatory diagrams to make the subject self-speaking to a great extent. No other reference is required. Ideally suited for

self-study.

How Computers Really Work Pustak Mahal

The present title is intended to be an introduction to communication system engineering with stress upon basic know how, practical design and programming using MATLAB. The contents are presented in a concise manner with summary of the topics, solved questions, practical design guidelines, probable questions and application of MATLAB. The book attempts to cover communication and related phenomena using MATLAB as far as possible to help the students to understand underlying concepts in a lucid manner as a part of the teaching learning process. A sizable portion of the book has relevant content related to practical design of the systems. The book has ten chapters and is expected to help the

reader in developing insights into the working and design of communication systems. KEY FEATURES • Use of MATLAB to cover the basic foundations of communication system. • A detailed practical approach to design of AM, FM and pulse modulation systems. • Summarized and concise description of each of the chapters, solved problems and MATLAB programs. • Probable questions and brief historical description of almost all major issues discussed in the book. • Discussion on television and radar as examples of communication system.

Basic Electronics - Second Edition
Springer Nature

This volume is a collection of articles on reliability and safety engineering presented during INCRS 2018. The articles cover a variety of topics such as big data analytics and their applications in

reliability assessment and condition monitoring, health monitoring, management, diagnostics and prognostics of mechanical systems, design for reliability and optimization, and machine learning for industrial applications. A special aspect of this volume is the coverage of performance, failure and reliability issues in electrical distribution systems. This book will be a useful reference for graduate students, researchers and professionals working in the area of reliability assessment, condition monitoring and predictive maintenance.

Integrated Circuit Quality and Reliability

Vikas Publishing House

Biosensors and Bioelectronics presents the rapidly evolving methodologies that are relevant to biosensors and bioelectronics fabrication and characterization. The book provides a comprehensive understanding of biosensor functionality, and is an interdisciplinary reference that includes a range of interwoven contributing subjects, including electrochemistry, nanoparticles, and conducting polymers. Authored by a team of bioinstrumentation experts, this book serves as a blueprint for performing advanced fabrication and characterization of sensor systems—arming readers with an application-based reference that enriches the implementation of the most advanced technologies in the field.

Features descriptions of functionalized nanocomposite materials and carbon fibre electrode-based biosensors for field and in vivo applications Presents a range of interwoven contributing subjects, including electrochemistry, nanoparticles, and conducting polymers Includes more than 70 figures and illustrations that enhance key concepts and aid in retention Ideal reference for those studying bioreceptors, transducers, bioinstrumentation, nanomaterials, immunosensors, nanotubes, nanoparticles, and electrostatic interactions Authored by a collaborative team of scientists with more than 50 years of experienced in field research and instruction combined

Electronics For Dummies Thakur Publication Private Limited

A comprehensive collection of 8 books in 1 offering electronics guidance that can't be found anywhere else! If you know a breadboard from a breadbox but want to take your hobby electronics skills to the next level, this is the only reference you need. Electronics All-in-One For Dummies has done the legwork for you — offering everything you need to enhance your experience as an electronics enthusiast in one convenient place. Written by electronics guru and veteran For Dummies

author Doug Lowe, this down-to-earth guide makes it easy to grasp such important topics as circuits, schematics, voltage, and safety concerns. Plus, it helps you have tons of fun getting your hands dirty working with the Raspberry Pi, creating special effects, making your own entertainment electronics, repairing existing electronics, learning to solder safely, and so much more. Create your own schematics and breadboards Become a circuit-building expert Tackle analog, digital, and car electronics Debunk and grasp confusing electronics concepts If you're obsessed with all things electronics, look no further! This comprehensive guide is packed with all the electronics goodies you need to add that extra spark to your game!

Newnes Electronics Circuits Pocket Book (Linear IC)

Cambridge University Press

Artificial Intelligence in Information and Communication Technologies, Healthcare and Education: A Roadmap Ahead is designed as a reference text and discusses inter-dependability,

communication and effective control for the betterment of services through artificial intelligence (AI), as well as the challenges and path ahead for AI in computing and control across different domains of business and human life. The book accommodates technologies and application domains including backbone hardware, systems and methods for deployment, which help incorporating intelligence through different supervised and probabilistic learning approaches. Features The book attempts to establish a connection between hardware, software technologies and algorithmic intelligence for data analysis and decision support in domains such as healthcare, education and other aspects of business and mobility. It presents various recent applications of artificial intelligence in information and communication technologies such as search and optimization methods, machine learning, data representation and ontologies, and multi-agent systems. The book provides a collection of different case studies with experimentation results than mere theoretical and generalized approaches. Covers most of the applications using the trending technologies like machine learning (ML), data science (DS), Internet of Things (IoT), and underlying information and communication technologies. The book is aimed primarily at advanced undergraduates and postgraduate students studying computer science, computer applications, and information technology. Researchers and professionals will also find this book useful.

Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English John Wiley & Sons

Long-awaited revision of this best-selling book on the Arduino electronics platform (50,000+ copies sold). Readers gain an in-depth understanding of the Arduino -- beyond just making simple projects. The Arduino is an inexpensive, flexible microcontroller platform that makes it easy for hobbyists to use electronics in DIY projects. With its wide range of input and output add-ons, sensors, indicators, displays, and motors, the Arduino offers you countless ways to create interactive devices. Through 65 hands-on projects, Arduino Workshop will teach you the tricks and design principles of a master craftsman. This edition has been updated for the latest version of the Arduino IDE and revised to reflect current hardware and technology. It includes coverage of general electronics concepts as well as schematic diagrams and detailed images of components. You'll experiment with touchscreens and LED displays, explore robotics, use sensors with wireless data links, and control devices remotely with a cell phone. Build projects like: An electronic version of the classic six-sided die A GPS logger that records and displays travel data A keypad-controlled lock that opens with a secret code A binary quiz game A motorized remote control car with collision detection Whatever your skill level, you're sure to have fun as you learn to harness the power of the Arduino for your own DIY projects. NEW TO THIS EDITION: A chapter on creating your own Arduino libraries Updated robotic vehicle projects Newer shields that leverage GPS, 3G, and LoRa data transmission capabilities A chapter on MAX7219-based numeric LED displays and LED matrix modules Covers Arduino IDE 2.x

DIGITAL DESIGN CRC Press

This textbook presents mechatronics through an integrated approach covering instrumentation, circuits and electronics, computer-based data acquisition and analysis, analog and digital signal processing, sensors, actuators, digital logic circuits, microcontroller programming and interfacing. The use of computer programming is emphasized throughout the text, and includes Matlab for system modeling, simulation, and analysis; LabVIEW for data acquisition and signal processing; and C++ for Arduino-based microcontroller programming and interfacing. Prof. Samanta provides numerous examples along with appropriate program codes, for simulation and analysis, that are discussed in detail to illustrate the concepts covered in each

section. The book also includes the illustration of theoretical concepts through the virtual simulation platform Tinkercad to provide students virtual lab experience. [Electronics For Dummies](#) Vikas Publishing House

Fundamentals of Electrical & Electronics Engineering” is a compulsory paper for the first year Diploma course in Engineering & Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided. Some salient features of the book: | Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. | The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity. | Book provides lots of vital facts, concepts, principles and other interesting information. | QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided. | Student and teacher centric course materials included in book in balanced manner. | Figures, tables, equations and comparative charts are inserted to improve clarity of the topics. | Objective questions and subjective questions are given for practices of students at the end of each unit. Solved and unsolved problems including numerical examples are solved with systematic steps

Reliability and Risk Assessment in Engineering John Wiley & Sons

An approachable, hands-on guide to understanding how computers work, from low-level circuits to high-level code. How Computers Really Work is a hands-on guide to the computing ecosystem: everything from circuits to memory and clock signals, machine code, programming languages, operating systems, and the internet. But you won't just read about these concepts, you'll test your knowledge with exercises, and practice what you learn with 41 optional hands-on projects. Build digital circuits, craft a guessing game, convert decimal numbers to binary, examine virtual memory usage, run your own web server, and more. Explore concepts like how to: Think like a software

engineer as you use data to describe a real world concept Use Ohm's and Kirchhoff's laws to analyze an electrical circuit Think like a computer as you practice binary addition and execute a program in your mind, step-by-step The book's projects will have you translate your learning into action, as you: Learn how to use a multimeter to measure resistance, current, and voltage Build a half adder to see how logical operations in hardware can be combined to perform useful functions Write a program in assembly language, then examine the resulting machine code Learn to use a debugger, disassemble code, and hack a program to change its behavior without changing the source code Use a port scanner to see which internet ports your computer has open Run your own server and get a solid crash course on how the web works And since a picture is worth a thousand bytes, chapters are filled with detailed diagrams and illustrations to help clarify technical complexities.

Requirements: The projects require a variety of hardware - electronics projects need a breadboard, power supply, and various circuit components; software projects are performed on a Raspberry Pi. Appendix B contains a complete list. Even if you skip the projects, the book's major concepts are clearly presented in the main text.

Extreme Fundamentals of Technology John Wiley & Sons

Examines all important aspects of integrated circuit design, fabrication, assembly and test processes as they relate to quality and reliability. This second edition discusses in detail: the latest circuit design technology trends; the sources of error in wafer fabrication and assembly; avenues of contamination; new IC packaging methods; new in-line process monitors and test structures; and more.;This work should be useful to electrical and electronics, quality and reliability, and industrial engineers; computer scientists; integrated circuit manufacturers; and upper-level undergraduate, graduate and continuing-education students in these disciplines. *Electronics For Kids For Dummies* John Wiley & Sons

An introductory guide to basic science and engineering concepts.

Digital Integrated Circuit Design CRC Press

Electronics is fascinating - want to make something of it? This book shows you how! You can make all sorts of things, once you understand what electronics is and how it works. This book helps you out with that part, explaining the whole thing in plain

English. Learn how electricity functions, how to harness it and put it to work, what tools you need to build circuits, what you can make with them, and how to do it safely. Mystery solved - understand what makes your iPod, remote control, and computer work Essential stuff - outfit your electronics lab with all the necessary tools, including some that will surprise you Schematic road maps - learn to read schematics and understand how they help your project get where it's going Symbols of power - recognize all the identifiers for power sources, grounds, and components Tools of the trade - discover how to use a multimeter, logic probe, oscilloscope, and solderless breadboard Break it down - get to know the ins and outs of components such as resistors, capacitors, diodes and transistors Getting it together - find out how integrated circuits make all the rest possible and learn to work with them & Analyze it - understand the rules that govern current and voltage and learn how to apply them Open the book and find: The difference between electronics and electricity A list of essential tools Cool projects you can build quickly Great places to find parts Important safety tips What a sine wave is Interesting stuff about speakers, buzzers, and DC motors Ohm's Law and how to use it [Digital Fundamentals and Applications](#) Bob Dukish

The main links with your PC and the outside world are the centronic port, used for connecting the printer, the RS232 port, used for the mouse, and the games port for a joystick. This book explores how these input/output (I/O) ports can be put to use through a range of other interfacing applications. This is especially useful for laptop and palmtop PCs which cannot be fitted with internal I/O cards. A novel approach is taken by this book, combining the hardware through which the ports can be explored, and the software programming needed to carry out a range of experiments. Circuits are provided for simple testing tools, and three experimental boards - which can also be purchased ready-made. A huge range of applications are considered, turning the PC into a flexible core of a variety of systems. External devices considered include opto-isolator drivers, power drivers, LED drivers, relay drivers, special driver ICs, and methods of driving opto-isolated zero-crossing solid state relays, stepper motors, sound generating devices and displays. Ways of gathering information from the outside world are given, as well as connection to digital devices, remote control and digital communication. As well as teaching in this field, Pei An has written

numerous articles for magazines such as Electronics World and Electronics Today International. A hands-on guide to exploring your PC's input/output ports Covers the hardware and software aspects of interfacing An exciting project-based approach to an important subject area Introduction to Digital Electronics Laxmi Publications

The Arduino is a cheap, flexible, open source microcontroller platform designed to make it easy for hobbyists to use electronics in homemade projects. With an almost unlimited range of input and output add-ons, sensors, indicators, displays, motors, and more, the Arduino offers you countless ways to create devices that interact with the world around you. In Arduino Workshop, you'll learn how these add-ons work and how to integrate them into your own projects. You'll start off with an overview of the Arduino system but quickly move on to coverage of various electronic components and concepts. Hands-on projects throughout the book reinforce what you've learned and show you how to apply that knowledge. As your understanding grows, the projects increase in complexity and sophistication. Among the book's 65 projects are useful devices like: - A digital thermometer that charts temperature changes on an LCD -A GPS logger that records data from your travels, which can be displayed on Google Maps - A handy tester that lets you check the voltage of any single-cell battery - A keypad-controlled lock that requires a secret code to open You'll also learn to build Arduino toys and games like: - An electronic version of the classic six-sided die - A binary quiz game that challenges your number conversion skills - A motorized remote control tank with collision detection to keep it from crashing Arduino Workshop will teach you the tricks and design principles of a master craftsman. Whatever your skill level, you'll have fun as you learn to harness the power of the Arduino for your own DIY projects. Uses the Arduino Uno board **Electronics All-in-One For Dummies** KHANNA BOOK PUBLISHING CO. PVT. LTD.

This text and reference provides students and practicing engineers with an introduction to the classical methods of designing electrical circuits, but incorporates modern logic design techniques used in the latest microprocessors, microcontrollers, microcomputers, and various LSI components. The book provides a review of the classical methods e.g., the basic concepts of Boolean algebra, combinational logic and sequential logic procedures, before engaging in the practical design approach and the use of computer-aided tools. The book is enriched with numerous examples (and their solutions), over 500 illustrations, and includes a CD-ROM with simulations, additional figures, and third party software to illustrate the concepts discussed in the book.

Introduction to Mechatronics No Starch Press

A compendium of data on all the most common integrated circuits used in televisions. Each device is illustrated with a pin-out diagram, and all the measurements and signal data in the book were taken under actual working conditions. This second edition contains over 70 new ICs.

Starting Electronics Construction No Starch Press

This volume presents selected papers from the International Conference on Reliability, Safety, and Hazard. It presents the latest developments in reliability engineering and probabilistic safety assessment, and brings together contributions from a diverse international community and covers all aspects of safety, reliability, and hazard assessment across a host of interdisciplinary applications. This book will be of interest to researchers in both academia and the industry.

Industrial Electronics and Control Jones & Bartlett Learning

This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India. The objective of this

lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories. This book covers 118 experiments for linear/analog integrated circuits lab, communication engineering lab, power electronics lab, microwave lab and optical communication lab. The experiments described in this book enable the students to learn: • Various analog integrated circuits and their functions • Analog and digital communication techniques • Power electronics circuits and their functions • Microwave equipment and components • Optical communication devices This book is intended for the B.Tech students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science, and Applied Electronics. It is designed not only for engineering students, but can also be used by BSc/MSc (Physics) and Diploma students. KEY FEATURES • Contains aim, components and equipment required, theory, circuit diagram, pin-outs of active devices, design, tables, graphs, alternate circuits, and troubleshooting techniques for each experiment • Includes viva voce and examination questions with their answers • Provides exposure on various devices

Television IC Data Files PHI Learning Pvt. Ltd.

With this book, object-oriented developers can hone the skills necessary to create the foundation for quality software: a first-rate design. The book introduces notation, principles, and terminology that developers can use to evaluate their designs and discuss them meaningfully with colleagues. Every developer will appreciate the detailed diagrams, on-point examples, helpful exercises, and troubleshooting techniques.