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2026-27

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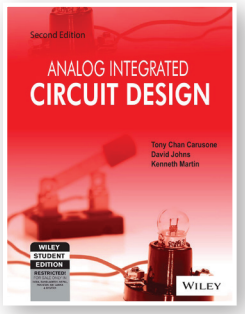
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ANALOG ELECTRONICS



Analog Integrated Circuit Design, 2ed, ISV | e | IM

Chan Carusone, David Johns, Kenneth Martin

ABOUT THE AUTHOR

Tony Chan Carusone has been with the Department of Electrical and Computer Engineering at the University of Toronto where he is currently an Associate Professor. He is also an occasional consultant to industry, having worked for Snowbush Inc., Gennum Corp., and Intel Corp., all in the area of high-speed links. Tony was a co-author of the best student papers at both the 2007 and 2008 Custom Integrated Circuits Conference and the best paper at the 2005 Compound Semiconductor Integrated Circuits Symposium.

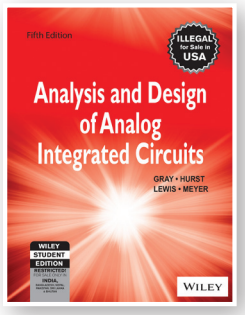
ABOUT THE BOOK

The 2nd Edition of Analog Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include topics on frequency response of analog ICs and basic theory of feedback amplifiers.

TABLE OF CONTENTS

• Integrated-Circuit Devices and Modelling • Processing and Layout • Basic Current Mirrors and Single-Stage Amplifiers • Frequency Response of Electronic Circuits • Feedback Amplifiers • Basic Opamp Design and Compensation • Biasing, References and Regulators • Bipolar Devices and Circuits • Noise and Linearity Analysis and Modelling • Comparators • Sample-and-Hold and Trans linear Circuits • Continuous-Time Filters • Discrete-Time Signals • Switched-Capacitor Circuits • Data Converter Fundamentals • Nyquist-Rate D/A Converters • Nyquist-Rate A/D Converters • Oversampling Converters • Phase-Locked Loops

9788126543939 | Pages: 820 | ₹ 1499



Analysis and Design of Analog Integrated Circuits, 5ed, ISV | IM

Gray, Hurst, Lewis, Meyer

ABOUT THE AUTHOR

Paul R. Gray received the BS, MS, and PhD degrees from the University of Arizona. He joined the University of California, Berkeley in 1971 with the Department of Electrical Engineering and Computer Sciences.Gray's research interests include bipolar and MOS circuit design, electro thermal interactions in integrated circuits, device modeling, telecommunications circuits, and analog-digital interfaces on analog integrated circuits. He is a member of numerous engineering and computer science organizations and is highly regarded in the field. Gray also holds several prizes, including the IEEE R.W.G. Baker Prize, IEEE Morris K Liebman award, IEEE Solid-State Circuits award, and many more.

ABOUT THE BOOK

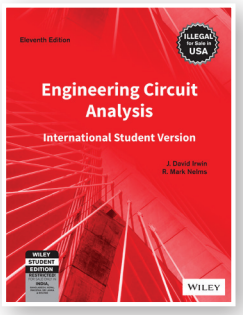
This is the only comprehensive book in the market for engineers that covers CMOS, bipolar technologies, and biCMOS integrated circuits. The fifth edition retains its completeness, updates the coverage of bipolar technologies, and enhances the discussion of biCMOS. It provides a more unified treatment of digital and analog circuit design while strengthening the coverage of CMOS. The chapter on non-linear analog circuits has been removed and chapter 11 has been updated to include an operational amplifier example. With its streamlined and up-to-date coverage, more engineers can turn to this resource to explore key concepts in the field.

TABLE OF CONTENTS

• 1. Models for Integrated-Circuit Active Devices • 2. Bipolar, MOS, and BiCMOS Integrated-Circuit Technology • 3. Single-Transistor and Multiple-Transistor Amplifiers • 4. Current Mirrors, Active Loads, and References • 5. Output Stages • 6. Operational Amplifiers with Single-Ended Outputs • 7. Frequency Response of Integrated Circuits • 8. Feedback • 9. Frequency Response and Stability of Feedback Amplifiers • 10. Nonlinear Analog Circuits • 11. Noise in Integrated Circuits • 12. Fully Differential Operational Amplifiers

9788126521487 | Pages: 896 | ₹ 1139

CIRCUITS



Engineering Circuit Analysis, 11ed, ISV | e | IM

J. David Irwin, R. Mark Nelms

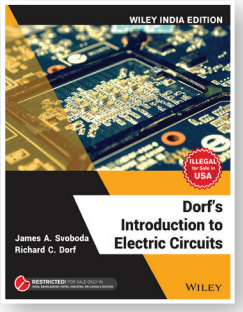
ABOUT THE BOOK

Circuit analysis is the fundamental gateway course for computer and electrical engineering majors. Engineering Circuit Analysis has long been regarded as the most dependable textbook. Irwin and Nelms has long been known for providing the best supported learning for students otherwise intimidated by the subject matter. In this new 11th edition, Irwin and Nelms continue to develop the most complete set of pedagogical tools available and thus provide the highest level of support for students entering into this complex subject.

TABLE OF CONTENTS

• Basic Concepts • Resistive Circuits • Nodal and Loop Analysis Techniques • Operational Amplifiers • Additional Analysis Techniques • Capacitance and Inductance • First- and Second-Order Transient Circuits • AC Steady-State Analysis • Steady-State Power Analysis • Magnetically Coupled Networks • Polyphase Circuits • Variable Frequency Network Performance • The Laplace Transform • Application of the Laplace Transform to Circuit Analysis • Fourier Analysis Techniques • Two-Port Networks • Diodes

9788126576258 | Pages: 736 | (Exclusive)



Dorf's Introduction to Electric Circuits, Wiley India Edition | e

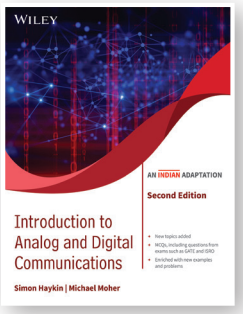
Richard C. Dorf, James A. Svoboda

ABOUT THE BOOK

Known for its clear problem-solving methodology and it emphasis on design, as well as the quality and quantity of its problem sets, Introduction to Electric Circuits by Dorf and Svoboda will help readers to think like engineers. Abundant design examples, design problems, and the How Can We Check feature illustrate the texts focus on design. The edition continues the expanded use of problem-solving software such as PSpice and MATLAB.

9788126573493 | Pages: 912 | ₹ 1079

COMMUNICATION SYSTEMS



Introduction to Analog and Digital Communications, 2ed (An Indian Adaptation) | e | IM

Simon Haykin, Michael Moher, Ganesh Prasad, Kiran Kumar Gurrala, Sateesh Kumar Awasthi, Shravan Kuma

ABOUT THE AUTHOR

Simon Haykin

(University of Wisconsin—Madison)

Michael Moher

(Space–Time DSP, Canada)

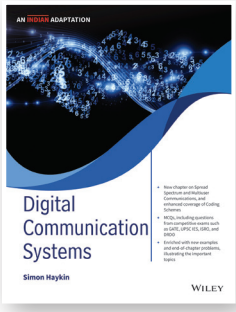
ABOUT THE BOOK

Introduction to Analog and Digital Communications, second edition, offers up-to-date coverage on the principles of analog and digital communications, focusing on the fundamentals of communication theory and relating theory to practice. Adopting a "systems" perspective approach, the book focuses on the concepts of modulation theory, probability theory and signal detection, and the role of noise in communication systems. Numerous worked-out examples as well as theme examples have been included to help students develop an intuitive grasp of the theory.

TABLE OF CONTENTS

• Fourier Representation of Signals and Systems • Amplitude Modulation • Angle Modulation • Pulse Modulation: Transition from Analog to Digital Communications • Baseband Data Transmission • Digital Band-Pass Modulation Techniques • Probability, Random Processes, and Noise • Noise in Analog Communications • Noise in Digital Communications • System and Noise Calculations

9789354644337 | Pages: 672 | ₹ 1099



Digital Communication Systems, An Indian Adaptation | e | IM

Simon Haykin

ABOUT THE AUTHOR

Simon Haykin is a University Professor at McMaster University, Hamilton, Ontario, Canada. His research interests include nonlinear dynamics, neural networks and adaptive filters and their applications in radar and communications systems. Dr. Haykin is the editor for a series of books on ""Adaptive and Learning Systems for Signal Processing, Communications and Control"" published by John Wiley & Sons, Inc. He is both an IEEE Fellow and Fellow of the Royal Society of Canada.

ABOUT THE BOOK

Digital Communication Systems is a comprehensive textbook, focusing on the core principles of digital communications and relating theory to practice. Starting with the background of Fourier analysis, probability theory, and stochastic processes to analyze random signals, the book covers sampling theory, pulse-amplitude modulation, pulse-code modulation, delta modulation, matched filter, intersymbol interference, and adaptive equalization. It then discusses passband digital modulation techniques such as ASK, PSK, FSK, and QAM, followed by multiple access techniques such as FDMA, TDMA, and CDMA. Lastly, it discourses on information theory in detail and various coding schemes to control the occurrences of errors in communication systems.

TABLE OF CONTENTS

• Frequency Analysis And Transmission Of Signals • Probability Theory And Random Variables • Stochastic Processes • Baseband Modulation • Signaling Over Band-Limited Channels • Passband Modulation • Spread Spectrum and Multiuser Communications • Information Theory • Error-Control Coding

9789354242465 | Pages: 652 | ₹ 1099



Fiber-Optic Communication Systems, 5ed (An Indian Adaptation) | e

Govind P. Agrawal, Ganesh Prasad

ABOUT THE AUTHOR

Govind P. Agrawal is a professor at the Institute of Optics at the University of Rochester and a Fellow of both the Optical Society of America and the Institute of Electrical and Electronics Engineering. He is a Senior Scientist at the Laboratory for Laser Energetics. Dr. Agrawal is author or coauthor of over 300 research papers, book chapters, and monographs.

ABOUT THE BOOK

Fiber-Optic Communication Systems, 5th edition delivers brand-new updates and developments in the science of fiber-optic communications. The book contains substantial additions covering the topics of coherence detection, space division multiplexing, and more advanced subjects. You'll learn about topics like fiber losses, dispersion, and nonlinearities, as well as coherent lightwave systems.

The latter subject has undergone major changes due to the extensive development of digital coherent systems over the last decade. Space-division multiplexing is covered as well, including multimode and multicore fibers developed in just the last ten years.

TABLE OF CONTENTS

• "·Optical Fibers • Optical Transmitters • Optical Receivers • Lightwave Systems • Multichannel Systems • Loss Management • Dispersion Management • Control of Nonlinear Effects • Coherent Lightwave Systems • Space-Division Multiplexing • Advanced Topics

9789357461245 | Pages: 648 | ₹ 1019



Satellite Communications, 3ed, An Indian Adaptation | e | IM

Timothy Pratt, Jeremy Allnutt

ABOUT THE AUTHOR

Timothy Pratt is an Emeritus Professor of the Bradley Department of Electrical and Computer Engineering at Virginia Tech, having retired in 2013. Dr. Pratt is a life-time senior member of the IEEE.

Jeremy Allnutt is an Emeritus Professor of the Electrical and Computer Engineering Department of George Mason University, having retired in 2014. His primary interest is radiowave propagation effects on satellite links, which he pursued at research establishments in England and Canada, before working at Intelsat in the USA from 1979 to 1994.

ABOUT THE BOOK

Satellite Communications is a comprehensive textbook designed for undergraduate and postgraduate courses on satellite communications. The book focuses on the underlying principles and essential mathematics required to understand the physics and engineering of satellite communications. Beginning with the topics that are specific to satellites, including orbits, launchers, and spacecraft, the book goes on to explain the principles of digital communication systems, radio frequency communications, digital modulation and multiple access techniques, and propagation in the earth's atmosphere, topics that are common to all radio communication systems.

TABLE OF CONTENTS

• Orbital Mechanics and Launchers • Satellites • Satellite Link Design • Digital Transmission and Error Control • Modulation and Multiple Access • Propagation Effects on Satellite-Earth Links • Low Throughput Systems and Small Satellites • NGSO Satellite Systems • Satellite Television • Satellite Internet • Satellite Navigation Systems

9789354243035 | Pages: 632 | ₹ 1050



Communication Systems, 5ed (An Indian Adaptation) | e | IM

Simon Haykin, Michael Moher, Ajay Singh Raghuvanshi, Shweta Shah

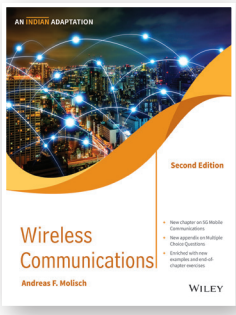
ABOUT THE BOOK

"This best-selling Communication Systems textbook continues to include the most comprehensive and rigorous coverage of both analog and digital communications. In addition to being the most up-to-date communications text available, the book lays an emphasis on the statistical underpinnings of communication theory with applications. The book presents material in a logical manner, and is illustrated with numerous examples, with the overall aim being that of helping the student develop an intuitive grasp of the theory under discussion.

TABLE OF CONTENTS

• Prologue • Fourier Representation of Communication Signals and Systems • Amplitude Modulation • Phase and Frequency Modulation • Random Variables and Processes • Noise in Communication Systems • Digital Representation of Analog Signals • Signal-Space Analysis • Baseband Transmission of Digital Signals • Band-Pass Transmission of Digital Signals • Spread Spectrum and Multiple Access • Information and Forward Error Correction

9789354640896 | Pages: 608 | ₹ 1050



Wireless Communications, 2ed An Indian Adaptation | e | IM

Andreas F. Molisch

ABOUT THE AUTHOR

Andreas F. Molisch is Professor at the University of Southern California (USC) in Los Angeles, CA. Dr. Molisch has been an Editor of a number of journals and special issues, General Chair, Technical Program Committee Chair, or Symposium Chair of multiple international conferences, as well as Chairman of various international standardization groups. He is a Fellow of the National Academy of Inventors, Fellow of the AAAS, Fellow of the IEEE, Fellow of the IET, an IEEE Distinguished Lecturer, and a member of the Austrian Academy of Sciences.

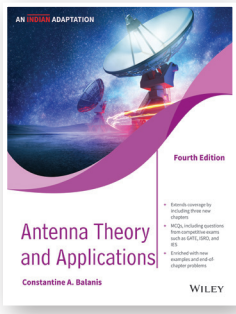
ABOUT THE BOOK

Wireless Communications provides an authoritative overview of the principles and applications of mobile communication technology. Combining mathematical descriptions with intuitive explanations of the physical facts, the book provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalization, and emerging topics such as multiuser detection in CDMA systems, MIMO systems, and cognitive radio. Divided into five parts, the book begins with a high level overview of wireless communications, followed by the various aspects of wireless propagation channels and antennas, wireless receivers, multiple access and advanced transceiver schemes, and concludes with standardized wireless systems.

TABLE OF CONTENTS

• Wireless Propagation Channels • Transceivers and Signal Processing • Multiple Access and Advanced Transceiver Schemes • Standardized Wireless Systems

9789354248795 | Pages: 792 | ₹ 1029



Antenna Theory and Applications, 4ed (An Indian Adaptation) | e | IM

Constantine A. Balanis

ABOUT THE AUTHOR

Constantine A. Balanis was with the NASA Langley Research Center in Hampton, VA, and from 1970 to 1983, he was with the Department of Electrical Engineering of West Virginia University. In 1983 he joined Arizona State University and is now Regents' Professor of Electrical Engineering. Dr. Balanis is also a life fellow of the IEEE.

ABOUT THE BOOK

Antenna Theory and Applications is a classical textbook in the field, which introduces the fundamental principles of antenna theory and explains how to apply them to the analysis, design, and measurements of antennas. Due to the variety of methods of analysis and design, and the different antenna structures available, the applications covered in this book are made to some of the most basic and practical antenna configurations. Among these antenna configurations are linear dipoles, loops, arrays, broadband antennas, aperture antennas, horns, microstrip antennas, and reflector antennas.

TABLE OF CONTENTS

• Introduction To Antennas • Fundamental Parameters And Figure-Of-Merit Of Antennas • Radiation Integrals And Auxiliary Potential Functions • Linear Wire And Loop Antennas • Aperture Antennas • Horn Antennas • Reflector Antennas • Planar And Microstrip Antennas • Traveling Wave And Broadband Antennas • Broadband Dipoles And Matching Techniques • Arrays: Linear, Planar, And DipolE • Modern Antenna Structures • Antenna Measurements • Applications Based Antennas • Advanced Microwave Communication And Wave Propagation

9789354248474 | Pages: 976 | ₹ 1069



Advanced Mobile Wireless Communications : A Holistic Coverage from Basic Concepts to 5G Technologies with IoT | e | IM

K. N. Raja Rao

ABOUT THE AUTHOR

K. N. Raja Rao has four decades of teaching and research experience. He is former Principal of R.V. College of Engineering, Bengaluru, and former Director, School of Engineering, Avinashilingam Institute of Home Science and Higher Education for Women, Coimbatore. He served as Head of the Department of Electronics and Communication and later as Head of the Department of Telecommunication.

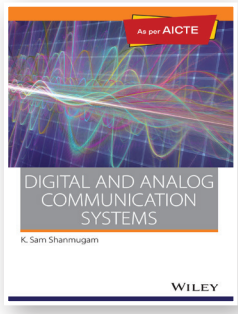
ABOUT THE BOOK

5G, the dawn of a new era, is an emerging technology that will transform communication and take it to new heights. It would cater not only to human-to-human communication but also to device-to-device, human-to-device and machine-to-machine communication. Spanning over 9 chapters, this book intends to give an in-depth analysis of the 5G technologies with IoT. From the basic concepts of cellular communication to the challenges of 5G, the book covers all the key ideas of the technologies developed for 5G.

TABLE OF CONTENTS

• Basics of Cellular Communication • Review of Various Generations of Cellular Communication: 2G to 5G • Long-Term Evolution and 4G • 5G Unfolded • 5G System Architecture and Network Features • New Technologies in 5G • 5G Functional Layers in Virtual Environment • 5G Use Cases and IoT Applications • Beyond 5G

9789357460637 | Pages: 352 | ₹ 1119



Digital and Analog Communication Systems, As per AICTE | e

K. Sam Shanmugam

ABOUT THE AUTHOR

Dr K. Sam Shanmugam is the AT&T Distinguished Professor of Electrical Engineering and Computer Science at University of Kansas. He did his ME from IISc, Bangalore and Ph.D. from Oklahoma State University, 1970

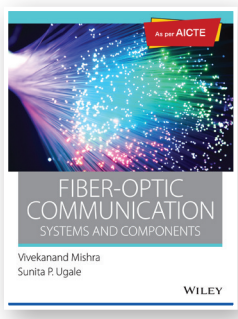
ABOUT THE BOOK

The book gives a unified treatment of theoretical and practical aspects of digital and analog communication systems, with emphasis on digital communication systems. It integrates theory with design, keeping theoretical details to a minimum, with over 60 practical and worked examples illustrating real-life methods. The emphasis is mainly on deriving design equations that relate performance of functional blocks to design parameters. It illustrates how to tradeoff between power, bandwidth and equipment complexity while maintaining an acceptable quality of performance.

TABLE OF CONTENTS

• Systems and Signal Analysis • Random Signal Theory • Information and Channel Capacity • Baseband Data Transmission • Analog Signal Transmission • Noise in Analog Communication Systems • Digital Carrier Modulation Schemes • Error Control Coding • Digital Transmission of Analog Signals

9788126512331 | Pages: 624 | ₹ 967



Fiber-Optic Communication, As per AICTE : Systems and Components | e

Vivekanand Mishra, Sunita P. Ugale

ABOUT THE AUTHOR

Dr. R.K. Singh, is professor at the Department of Electronics and Communication Engineering, Kumaon Engineering College (an autonomous college under the Government of Uttrakhand), Dwarahat, and officer on special duty (OSD) at Uttrakhand Technical University, Dehradun. Dr. Singh is recipient of several state- and center-level awards for his contributions to the field of education and research: Rashtriya Samman Puraskar (by Indian Society for Intellectual Development), Jewel of Indian Award

(by International Institute of Education and Management), Rashtriya Ekta Award (by Global Economic Council), Lifetime Achievement Award (by Indian International Council for Industries and Trade) and Arch of Excellence Award (at the national seminar of All India Achievers Conference).

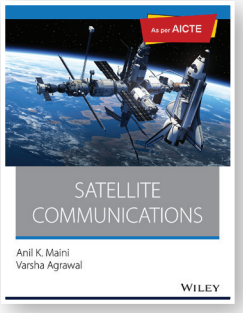
ABOUT THE BOOK

This book introduces the reader to the essentials of fiber-optic systems and their uses in both communication and non-communication areas, embracing various components. This book is ideal for entry-level engineers, post-graduate students and non-specialists as well. The introduction to fiber optics offered in this book is thorough and accessible and reflects the expertise of authors who have been teaching in this field for over 15 years.

TABLE OF CONTENTS

• Overview of Optical Fiber Communication Systems • Structures, Wave Guiding, and Fabrication • Linear and Non-Linear Effects in Optical Fibers • Optical Sources • Optical Receivers • Optical Transmission System: Concepts and Components • Optical Amplifiers • Basic Instrumentation for Optical Measurements • Optical Sensors

9788126510740 | Pages: 392 | ₹ 899



Satellite Communications, As per AICTE | e

Anil K. Maini, Varsha Agrawal

ABOUT THE AUTHOR

Anil K. Maini is Director at Laser Science and Technology Centre, an R&D establishment under Defence Research and Development Organization (DRDO), India. He has worked on a wide range of electronics, optoelectronics and laser systems. His areas of expertise include Optoelectronic sensor systems, Laser systems, Power electronics, Digital electronics and related technologies.

Varsha Agrawal is Scientist at the Laser Science and Technology center. She has been with Defence Research and Development Organization (DRDO) under the Government of India for the last nine years and has been working on the design and development of a variety of electronics sub-systems for various Defence-related applications. She has two books Satellite Technology: Principles and Applications and Electronics Devices and Circuits to her credit.

ABOUT THE BOOK

The text is an up-to-date and comprehensive title in the field of satellite communication technology and applications. It offers full coverage of the theoretical and practical concepts of the communication satellites and also briefly talks about the other applications including remote sensing, weather forecasting, navigation, scientific and military. The essentials of satellite technology are explained by giving an introduction to the fundamental topics such as orbits and trajectories, launch and in-orbit operations before going on to describe satellite hardware.

TABLE OF CONTENTS

• Introduction to Satellites and Their Applications • Satellite Orbits and Trajectories • Satellite Launch and In-Orbit Operations • Satellite Hardware • Communication Techniques • Multiple Access Techniques • Satellite Link Design Fundamentals • Earth Station • Communication Satellites • Other Applications

9788126520732 | Pages: 504 | ₹ 999

CONTROL SYSTEMS



Control Systems Engineering, 8ed (An Indian Adaptation) | e | IM

Norman S. Nise, Amit Kumar Singh, Aritro Dey, Manas Kumar Bera, Swastik Acharya

ABOUT THE AUTHOR

Norman S. Nise, California State Polytechnic University, Pomona, USA.

ABOUT THE BOOK

This Indian adaptation of the text maintains those aspects of the previous editions that have led to the book being so successful. In addition to introducing a new chapter on Optimal Control Systems, this edition strengthens the coverage by including new sections on Servomechanism, Multivariable Systems, Tuning of PID Controller, and All-Pass and Non-Minimum Phase Systems. Many of the end-of-chapter problems have been revised and new problems have been added. It also includes multiple choice questions based on the questions from various competitive examinations.

TABLE OF CONTENTS

• Introduction • Modeling in the Frequency Domain • Modeling in the Time Domain • Time Response Analysis • Reduction of Multiple Subsystems • Stability • Steady-State Errors • Root Locus Techniques • Design Via Root Locus • Frequency Response Techniques • Design Via Frequency Response • Design Via State Space • Optimal Cont • Digital Control Systems (Available Online)

9789357463980 | Pages: 844 | ₹ 1399

DIGITAL DESIGN



Digital Design and Verification using Verilog and SystemVerilog | e | IM

Sanjay Churiwala, Usha Mehta, Vaishali Dhare

ABOUT THE AUTHOR

Sanjay Churiwala holds a B.Tech in Electronics and Electrical Communications Engineering from IIT Kharagpur. With over 30 years of experience in VLSI front-end design methodologies and Electronic Design Automation, he has extensively worked on Verilog-based designs in various roles, including Applications Engineering, Design and Verification Lead, and Tool Development and Verification. He holds several international patents and has authored numerous technical books on VLSI and related fields. Currently, he serves as the Corporate Vice President at AMD's Hyderabad office. Sanjay is also a regular guest lecturer on VLSI topics at various academic institutions.

Usha Mehta is currently a Professor and Head of the Department of Electronics and Communication, Institute of Technology, Nirma University, Ahmedabad. She has more than 24 years of teaching experience. She has guided more than ten research students. She has one Patent on her credit. She has been the Principal Investigator

for research projects of DST-MeitY-C2S Scheme, ISRO RESPOND and GUJCOST. RHBD Chip developed for SAC, ISRO during this project has been fabricated at SCL, Chandigarh. She has published more than 55 research papers in areas of Digital System Design, VLSI Design and Testing.

Vaishali Dhare is an Assistant Professor in the Electronics and Communication Engineering Department at the Institute of Technology, Nirma University, Ahmedabad. Dr. Vaishali completed her PhD in Testing of Nanotechnology Devices and Circuits from Nirma University in 2018.

With over 20 years of teaching experience, she has guided more than 30 MTech and BTech projects and conducted various seminars and workshops. She has published over forty papers in journals and conference proceedings and is currently guiding two research scholars. She has also undertaken consultancy and research projects. Her areas of interest include Hardware Description Languages, Testing and Verification of VLSI Design, Quantum-dot Cellular Automata, Applied Algorithms for VLSI CAD, and Reversible Logic.

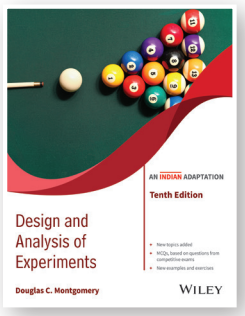
ABOUT THE BOOK

Digital Design and Verification using Verilog and SystemVerilog is an essential guide for students and early career professionals aiming to master the intricacies of digital design and verification. Authored by industry experts and academics, this book combines practical insights from the field with foundational teaching principles, making it a comprehensive resource for learning and applying Verilog and SystemVerilog.

TABLE OF CONTENTS

• Introduction to Verilog • Basic Concepts • Modeling Levels • Modeling of Combinational Circuits • Branching Control • Procedural Blocks • Loop Control • Understanding Race • Modeling Synchronous Memories • Parameterization • FSM Modeling • Hierarchical Models • User-Defined Primitives • Switch Models • Modeling Timing • System Function and Tasks • Compiler Directives • Functions and Tasks • Design Verification • SystemVerilog for Design and Verification

9789363868021 | Pages: 380 | ₹ 891



Design and Analysis of Experiments, 10ed (An Indian Adaptation) | e | IM

Douglas C. Montgomery, Anita Mehta, Biplab Das, Boby John, Jagadish, Mahesh Kumar Panda, Udupi Harid

ABOUT THE AUTHOR

Douglas C. Montgomery • Arizona State University, USA • • Indian Adaptation Contributors • ·Anita Mehta Jagadish, Mohanlal Sukhadia University • ·Biplab Das, NIT Silchar • ·Boby John, Indian Statistical Institute • ·Mahesh Kumar Panda, Ravenshaw University • ·Udupi Haridasa Acharya, Indian Statistical Institute

ABOUT THE BOOK

Design and Analysis of Experiments provides a rigorous introduction to product and process design improvement through quality and performance optimization. Clear demonstration of widely practiced techniques and procedures allows readers to master fundamental concepts, develop design and analysis skills, and use experimental models and results in real-world applications. Detailed coverage of factorial and fractional factorial design, response surface techniques, regression analysis, biochemistry and biotechnology, single factor experiments, and other critical topics offer highly-relevant guidance through the complexities of the field.

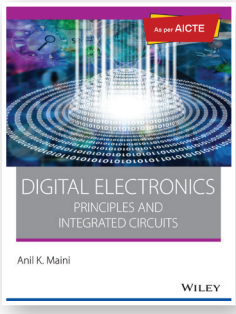
Stressing the importance of both conceptual knowledge and practical skills, this text adopts a balanced approach to theory and application. Extensive discussion of modern software tools integrate data from real-world studies, while examples illustrate the efficacy of designed experiments across industry lines, from service and transactional organizations to heavy industry and biotechnology. Broad in scope yet deep in detail, this text is both an essential student resource and an invaluable reference for professionals in engineering, science, manufacturing, statistics, and business management.

TABLE OF CONTENTS

• Introduction • Simple Comparative Experiments • Single-Factor Analysis of Variance: ANOVA • Randomized Blocks, Latin Squares, and Related Designs • Introduction to Factorial Designs • The 2k Factorial Design • Blocking and Confounding in the 2k Factorial Design • Two-Level Fractional Factorial Designs • Additional Design and Analysis Topics for Factorial and Fractional Factorial Designs • Regression Models • Response Surface Methods and Designs • Robust Parameter Design and Process Robustness Studies • Experiments with Random Factors • Nested and Split-Plot Designs

9789370600164 | Pages: 740 | ₹ 1349

DIGITAL ELECTRONICS



Digital Electronics, As per AICTE : Principles and Integrated Circuits | e

Anil K. Maini

ABOUT THE AUTHOR

Anil K. Maini is a senior scientist and Associate Director at Laser Science and Technology Centre, an R&D establishment under Defence Research and Development Organization (DRDO), India. He has worked on a wide range of electronics, optoelectronics and laser systems. His areas of expertise include Optoelectronic sensor systems, Laser systems, Power electronics, Digital electronics and related technologies.

ABOUT THE BOOK

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.

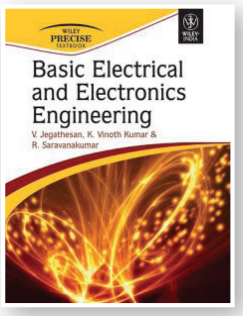
TABLE OF CONTENTS

• Number Systems And Codes • Digital Arithmetic • Logic Gates And Related Devices • Logic Families • Boolean Algebra And Simplification Techniques • Arithmetic Circuits • Combinational Logic Circuits • Flip-Flops And Related Devices • Counters And Registers • Data Conversion Circuits – D/A And A/D Converters • Programmable

Logic Devices • Microprocessors • Microcontrollers • Memory Devices

9788126508631 | Pages: 608 | ₹ 999

ELECTRICAL ENGINEERING



Basic Electrical and Electronics Engineering | e

V. Jegathesan, K. Vinoth Kumar, R. Saravanakumar

ABOUT THE AUTHOR

Dr. V. Jegathesan received his B.E. degree in Electrical and Electronics Engineering from Bharathiar University, Coimbatore, Tamil Nadu, India in 1999. He has obtained M.E. from Bharathiar University, Coimbatore, Tamil Nadu, India in 2002 and his doctoral degree from Anna University, Chennai, Tamil Nadu, India in 2010. Presently, he is working as an Assistant Professor (SG) in Department of Electrical and Electronics Engineering in Karunya Institute of Technology and Sciences (Karunya University), Coimbatore, Tamil Nadu, India.

Mr. K. Vinoth Kumar received his B.E. degree in Electrical and Electronics Engineering from Anna University, Chennai, Tamil Nadu, India in 2006. He obtained M.Tech in Power Electronics and Drives from VIT University, Vellore, Tamil Nadu, India in 2008. Presently he is working as an Assistant Professor in the School of Electrical Science, Karunya Institute of Technology and Sciences (Karunya University), Coimbatore, Tamil Nadu, India.

Dr. R. Saravanakumar is currently working as an Associate Professor in the School of Electrical Engineering, Vellore Institute of Technology University (VIT). He has been teaching Power Electronics and Special Electrical Machines since 1999 to B.Tech students and has also been teaching students of M.Tech Power Electronics and Drives since 2002. He has a total teaching experience of 12 years and a research experience of 7 years.

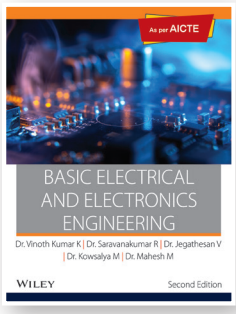
ABOUT THE BOOK

Setting the benchmark for a modern approach to this fundamental topic, Basic Electrical and Electronics Engineering supplies a comprehensive, intuitive, conceptual, and hands-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. This book addresses the basic requirements of B.E., B.Tech, B.Sc Electrical and Electronics Engineering students. Beginning with the fundamentals of electricity and electrical elements, it provides an exhaustive coverage of fundamental aspects of electrical quantities, alternating and direct current machines, power systems, basic analog instruments and ends with a brief discussion on computer and communication.

TABLE OF CONTENTS

• Basics of Electrical Engineering • DC Circuits • Magnetic Circuits • Principles of Electrical Machines • AC Circuits • Polyphase Systems • Electrical Machines • Measuring Instrument • Domestic Wiring • Power System • Essentials of an Electronic Circuit • Basic Semiconductor Devices and Circuits • Special Semiconductor Devices • Transducers • Linear and Digital Integrated Circuits • Fundamentals of Computer • Fundamentals of Communication

9788126529513 | Pages: 552 | ₹ 879



Basic Electrical and Electronics Engineering, 2ed | e

Dr. Vinoth Kumar K, Dr. Saravanakumar R, Dr. Jegathesan V, Dr. Kowsalya M, Dr. Mahesh M

ABOUT THE AUTHOR

Dr. Vinoth Kumar K is working as an Associate Professor in the Department of Electrical and Electronics Engineering at New Horizon College of Engineering, Bengaluru.

Dr. Saravanakumar R is currently working as a Professor in the School of Electrical Engineering (SELECT), Vellore Institute of Technology (VIT), Vellore. He started new MTech control and Automation Programme at VIT Vellore in 2013.

Dr. Jegathesan is currently working as Associate Professor and Head/Karunya SIEMENS Centre in the department of Robotics Engineering, Karunya Deemed University, Coimbatore, Tamil Nadu.

Dr. Kowsalya M is presently a professor of Vellore Institute of Technology, Vellore. She was involved in the teaching and development of several courses at VIT, Vellore.

Dr. Mahesh M is currently serving as Professor and Head in the Electrical & Electronics Engineering Department at New Horizon College of Engineering, Bangalore, India.

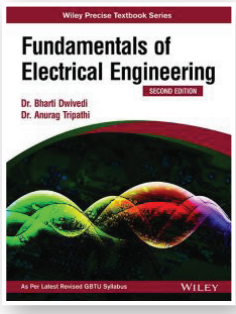
ABOUT THE BOOK

This book, Basic Electrical and Electronics Engineering, is meant for a wide range of readers who wish to learn the basic concepts. This book addresses the basic requirements of the course in B.E., B.Tech, B.Sc. Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Mechanical Engineering, Information Science Engineering, Computer Science Engineering, Biomedical Engineering, Robotics Engineering, Aerospace Engineering, Marine Engineering, etc.The entire book is written in a style to enable the students to understand the subject matter without much difficulty.

TABLE OF CONTENTS

• Basics of Electrical Engineering • DC Circuits • Network Theorems • DC Transients • Magnetic Circuits • Principles of Electrical Machines • AC Circuits • Polyphase Systems • Electrical Machines • Basics of Measuring Instruments • Basics of Domestic Wiring and Batteries • Basics of Power Systems • Basics of Electrical Components • Basics of Semiconductor Devices and Power Electronics • Basics of Special Semiconductor Devices • Transducers • Basics of Linear and Digital Integrated Circuits • Basics of Computers • Basics of Communication

9789354643194 | Pages: 640 | ₹ 839



Fundamentals of Electrical Engineering, 2ed | e

Dr. Bharti Dwivedi, Dr. Anurag Tripathi

ABOUT THE AUTHOR

Dr. (Mrs.) Bharti Dwivedi is Professor and Head of the Department of Electrical Engineering, Institute of Engineering and Technology, Lucknow. With over 32

years of teaching experience, Dr. Dwivedi has taught at Government College of Engineering and Technology, Raipur; Government Engineering College, Rewa, etc. With over 60 papers published in various national and international journals and conferences, she has guided many students through their PhDs.
Dr. Anurag Tripathi is assistant professor of Electrical Engineering at Institute of Engineering and Technology, Lucknow. Dr. Tripathi has over 11 years of teaching experience. He cleared IES (written) twice, GATE exam four times, MPPCS (written) and JTO exam.

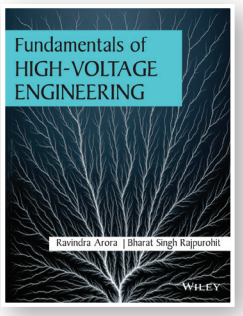
ABOUT THE BOOK

Fundamentals of Electrical Engineering is a text targeted towards first-year undergraduate students across all streams of Engineering. This book aims at explaining the basic concepts of electrical circuits in a clear-cut and simplified manner. It begins from the topics which students have already dealt with at the 10+2 level and relates them to the syllabus of a first-year college-level course, thus ensuring a smooth progressive transition from Physics to Electrical Engineering. This book explains methods of solving electrical circuits that are based on first principles but are also described in a stepwise manner.

TABLE OF CONTENTS

• 1 DC Circuit Analysis and Network Theorems • 2 Steady-State Analysis of Single-Phase AC Circuits • 3 Three-Phase System • 4 Power System, Magnetic Circuit and Single-Phase Transformers • 5 Electromechanical Energy Conversions • 6 Miscellaneous Topics in Electrical Engineering • Solved Examples • Summary • Short Answer Questions • Review Questions • Problems • Answers • Model Question Paper 1 • Model Question Paper 2 • Model Question Paper 3 • Model Question Paper 4 • Index

9788126542710 | Pages: 336 | ₹ 899



Fundamentals of High-Voltage Engineering | e | IM

Ravindra Arora, Bharat Singh Rajpurohit

ABOUT THE AUTHOR

Dr. Ravindra Arora retired from Indian Institute of Technology Kanpur in May 2008, where he worked for 34 years. At IITK, he established a unique high-voltage laboratory, where he conducted research activity for more than 40 master's theses, 2 PhDs, and a large number of undergraduate projects, besides having completed several industry-sponsored projects. He is a Life Member of IEEE (USA) and Institution of Engineers (India).

Dr. Bharat Singh Rajpurohit did his PhD from Indian Institute of Technology Kanpur in 2009 and joined Indian Institute of Technology Mandi in 2010, where he conducted research activity in the area of electrical power. He has guided four PhD theses, few UG/PG projects and completed several industry-sponsored research projects. He is a Senior Member of IEEE and a Life Member of the Institution of Engineers (India).

ABOUT THE BOOK

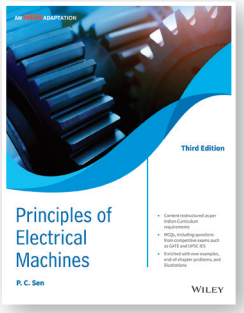
This book has a novel approach in describing the fundamental concept of field-dependent behavior of dielectrics when subjected to different types of high voltages. The contents begin with a systematic classification of electric fields and the techniques of field estimation. In-depth coverage of performance/behaviour of gaseous, solid and liquid dielectrics has been made in the book. The basics of high voltage laboratory techniques, non-destructive testing, measurement of high test voltages and dielectric properties are also covered in detail in this book.

TABLE OF CONTENTS

• Preface • About the Authors • Acknowledgements • Preamble • • Chapter 1 Introduction to High-Voltage Engineering • • Chapter 2 Electric Field Intensity, Stress Control, and Types of Breakdown in Dielectrics • • Chapter 3 Transient Overvoltages and Insulation Coordination in High-Voltage Networks • • Chapter 4 Field-Dependent Electric Strength and Breakdown in Gaseous Dielectrics and Vacuum • • Chapter 5 Lightning, a Breakdown Phenomenon in Atmospheric Air, Its Effects and Protection • • Chapter 6 Solid- and Liquid-Insulating Materials, Their Classification, Properties, and Breakdown • • Chapter 7 Generation of High Test Voltages • • Chapter 8 Measurement of High Test Voltages • • Chapter 9 Non-Destructive Testing and Quality Control of Electrical Equipment • • Chapter 10 High-Voltage Test Laboratory Design and Curriculum Experiments • Experiment I • Experiment II • Experiment III • Experiment IV • Experiment V • Experiment VI • Experiment VII • Experiment VIII and IX • Experiment X • Summary • References • Worked Examples • Multiple-Choice Questions • Review Questions • Numerical Problems • • Appendix A Finite Element Modelling and High-Voltage Engineering • A.1 Introduction to FEM Modelling in COMSOLTM • Reference • Practice Questions • • Appendix B Travelling Waves on Transmission Lines • B.1 Evaluation of the Velocity of Wave Propagation • B.2 Reflection and Refraction Coefficients of Travelling Waves • Reference • Worked Examples • Numerical Problems • • Answers • Index

9788126579747 | Pages: 408 | ₹ 899

ELECTRICAL MACHINES



Principles of Electrical Machines, 3ed, (An Indian Adaptation) | e | IM

P.C. Sen

ABOUT THE AUTHOR

Dr. P. C. Sen is Emeritus Professor of Electrical and Computer Engineering at Queen's University, Canada. He has worked for industries in India and Canada and was a consultant to electrical industries in Canada. He has authored over 215 technical papers in the general area of electric motor drives and power electronics. He is the author of two internationally acclaimed textbooks: Principles of Electric Machines and Power Electronics and Thyristor DC Drives (Wiley, 1981). He has taught electric machines, power electronics, and electric drive systems for over 45 years.

ABOUT THE BOOK

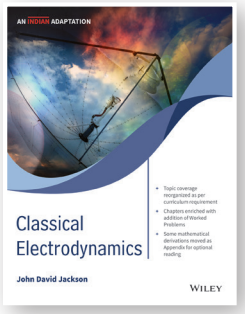
Principles of Electrical Machines provides a comprehensive discourse on the characteristics and working principles of various types of electrical machines. Starting with magnetic circuits which form an integral part of electrical machines, the book goes on to cover transformers and the general principles of energy conversion. The book then extensively discusses different types of electrical machines—dc machines, three-phase induction machines, and three-phase synchronous machines; single-phase motors, which are widely used in household and office appliances.

TABLE OF CONTENTS

• MAGNETIC CIRCUITS • TRANSFORMERS • ELECTROMECHANICAL ENERGY CONVERSION • MACHINE WINDINGS, MMF DISTRIBUTION, AND MAGNETIC FIELDS • DC MACHINES • INDUCTION (ASYNCHRONOUS) MACHINES • SYNCHRONOUS MACHINES • SINGLE-PHASE MOTORS • SPECIAL MACHINES

9789390395057 | Pages: 476 | ₹ 999

ELECTROMAGNETICS



Classical Electrodynamics, An Indian Adaptation | e

John David Jackson

ABOUT THE AUTHOR

John David Jackson is the author of Classical Electrodynamics, 3rd Edition, published by Wiley.

ABOUT THE BOOK

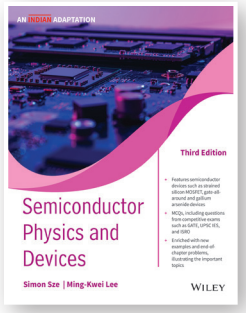
Classical Electrodynamics is a comprehensive and classical text for an undergraduate course in electricity and magnetism and graduate course in classical electromagnetism for students majoring in physics and related fields. The goal of the text is threefold. First goal is to provide the basic subject matter as a coherent whole, together in their physical and mathematical description mode; second is to develop and utilize the topics in mathematical physics and third is to present the interactions of relativistic charged particles with electromagnetic fields; thus making this book useful for theoretical physics, experimental nuclear and high-energy physics.

TABLE OF CONTENTS

• Introduction to Electrostatics • Boundary-Value Problems in Electrostatics: I • Boundary-Value Problems in Electrostatics: II • Multipoles, Electrostatics of Macroscopic Media, Dielectrics • Magnetostatics, Faraday's Law, Quasi-Static Fields • Maxwell Equations, Conservation Laws • Plane Electromagnetic Waves and Wave Propagation • Waveguides, Resonant Cavities, and Optical Fibers • Radiating Systems, Multipole Fields and Radiation • Scattering and Diffraction • Special Theory of Relativity • Dynamics of Relativistic Particles and Electromagnetic Fields • Collisions, Energy Loss, and Scattering of Charged Particles; Cherenkov and Transition Radiation • Radiation by Moving Charges • Bremsstrahlung, Radiative Beta Processes • Radiation Damping, Classical Models of Charged Particles

9789388991070 | Pages: 832 | ₹ 1179

ELECTRONICS



Semiconductor Physics And Devices, 3ed, An Indian Adaptation | e | IM

S. M. Sze, M. K. Lee

ABOUT THE AUTHOR

Simon Sze is EtronTech Distinguished Chair Professor, College of Electrical and Computer Engineering, National Chiao Tung University, Hsinchu, Taiwan

Ming-Kwei Lee is Professor, Department of Electrical Engineering, National Sun Yat-sen University, Kaohsiung, Taiwan

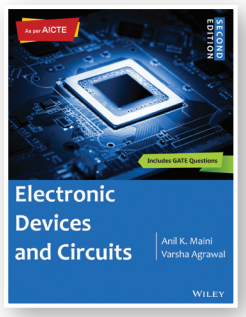
ABOUT THE BOOK

Semiconductor Physics and Devices is a comprehensive textbook written for the undergraduate students of electronics engineering, electrical engineering, applied science, and materials science. The book first provides a summary of the basic properties of semiconductor materials, covering energy band, carrier concentration, and transport properties, emphasizing silicon and gallium arsenide. It then examines p-n diodes, bipolar transistors, MOSFETs, and other field-effect transistors such as MESFETs, MODEFTs, negative-resistance and power devices, and photonic devices and sensors, including light-emitting diodes, photodetectors, and solar cells.

TABLE OF CONTENTS

• Basic Physics of Semiconductors • Carrier Transport Phenomena • p–n Junction • Bipolar Transistors • Field Effect Transistors • Advanced MOSFET Devices • MESFET and Related Devices • Microwave Diodes; Power, Quantum-Effect, and Hot-Electron Devices • Optical Devices: Light-Emitting Diodes and Lasers • Optical Devices: Photodetectors and Solar Cells • Semiconductor Process Technology • Integrated Devices

9789354243226 | Pages: 608 | ₹ 969



Electronic Devices and Circuits, 2ed | e | IM

Anil K. Maini, Varsha Agrawal

ABOUT THE AUTHOR

Anil K. Maini is a Consultant, Defence Technologies, and formerly Director, Laser Science and Technology Centre, an R&D establishment under Defence Research and Development Organization (DRDO), India. He has 10 books to his credit including Digital Electronics: Principles and Applications, Satellite Technology: Principles and Applications, Microwaves and Radar, Electronics Simplified, Electronics Projects for Beginners, Handbook of Defence Electronics, Lasers and Optoelectronics, Lasers and Optoelectronics for Homeland Security, Electronics and Communication Engineering (GATE) and Engineering Mathematics and General Aptitude (GATE).

Varsha Agrawal is Senior Scientist at the Laser Science and Technology center. She has been with Defence Research and Development Organization (DRDO), Govt. of India for the last 19 years and has been working on the development of a variety of

electronics, optoelectronics and laser-based systems for various defence-related applications.

ABOUT THE BOOK

Electronic devices and circuits is an important subject as it is essential to understanding the operational basics and design of linear integrated circuits, digital devices and integrated circuits, electronic circuits, and to some extent, instrumentation. It is therefore essential for students and engineers to understand electronic devices and circuits and also the building blocks of electronics configured around them. Electronic Devices and Circuits is a complete book that provides comprehensive coverage of different topics of analog electronics related to electronics devices including discrete devices as well as integrated circuits and electronic circuits.

TABLE OF CONTENTS

• Passive Electronic Components • Electromechanical Components and Batteries • Introduction to Semiconductor Physics • Semiconductor Diodes • Bipolar Junction Transistors • Transistor Biasing and Thermal Stabilization • Field Effect Transistors • UJTs and Thyristors • Optoelectronic Devices • Small Signal Analysis of Amplifiers • High-Frequency Response of Small Signal Amplifiers • Large Signal Amplifiers • Feedback Amplifiers • Sinusoidal Oscillators • Wave-Shaping Circuits • Linear Power Supplies • Switched Mode Power Supplies • Introduction to Operational Amplifiers • Operational Amplifier Application Circuits

9788126578085 | Pages: 772 | ₹ 1099

EMBEDDED SYSTEMS



Embedded Systems, 2ed (An Indian Adaptation) : A Contemporary Design Tool | e | IM

James K. Peckol, Ankit Ashokrao Bhurane, Dushyant Kumar Singh, Lachit Dutta, Sahadev Roy, Trailokya

ABOUT THE AUTHOR

The author's background spans over 50 years as an engineer and educator in the field of software, digital, and embedded systems design and development. As an engineer in the aerospace, commercial, and medical electronics industries, the author has worked on test systems for military aircraft navigation systems and radar systems, the Apollo color camera, various weather satellites, the Mars Viking Lander, flight control systems for a number of commercial aircraft, production of high-quality electronic test instruments and measurement systems, and several defibrillation systems. His academic experience spans more than 30 years of developing and teaching software, digital design, fuzzy logic, networking, and embedded systems design courses for students with experience ranging from limited hardware or software backgrounds to those at the junior, senior, and graduate levels.

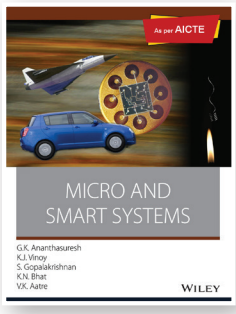
ABOUT THE BOOK

This Indian edition enhances the coverage with new and updated content. It introduces a new chapter on Embedded Systems, new sections on an SDRAM Design, and Time Constraint and Divided Handling: Two-Level Elements. Additionally, a new appendix on Design Projects, representing simplified examples of real-world applications has been added. Many examples and exercises throughout the book are new or revised. It also includes multiple-choice questions derived from various competitive examinations.

TABLE OF CONTENTS

• Introduction to Embedded Systems • Memories and the Memory Subsystem • An Introduction to Software Modeling • The Software Side – The Fundamentals of C • System Design Constraints – Safety, Security, Reliability, and Robust Design • Embedded Systems Design and Development – Hardware–Software Co-Design • Hardware Test and Debug • Real-Time Kernels and Operating Systems • Tasks and Task Management • Deadlocks • Performance Analysis and Optimization • Working Outside of the Processor I: A Model of Interprocess Communication • Working Outside of the Processor I: Refining the Model of Interprocess Communication • Working Outside of the Processor II: Interfacing to Local Devices • Working Outside of the Processor III: Interfacing to Remote Devices • Practical Considerations Signal Behavior in the Real World – Part 1 – Noise and Crosstalk • Practical Considerations Signal Behavior in the Real World – Part 2 – High-Speed Signaling

9789357463966 | Pages: 892 | ₹ 1129



Micro and Smart Systems, As per AICTE | e

G.K. Ananthasuresh, K.J. Vinoy, S. Gopalakrishnan, K.N. Bhat, V.K. Aatre

ABOUT THE AUTHOR

Prof. G.K. Ananthasuresh is a Professor of Mechanical Engineering at IISc, Bangalore, India. He has been chosen for the Shanti Swarup Bhatnagar Prize, 2010. He has been working in the microsystems area since 1991 with emphasis on modeling and design. Prof. Ananthasuresh has edited the first book on Optimal Synthesis Methods for MEMS.

Prof. K.J. Vinoy is an Associate Professor in the Department of Electrical Communication Engineering at IISc, Bangalore. This is his third book in the area of Microsystems.

Prof. Gopalakrishnan is a Professor in the Department of Aerospace Engineering at IISc. He is a Fellow of INAE. Prof. Gopalakrishnan is the Chairman of the Aerospace Applications and Structural Health Monitoring group of the National Programme on Micro and Smart Systems.

Prof. K.N. Bhat was a professor at IIT Madras and is currently a Visiting Professor at IISc. He is a Fellow of the INAE. He has immensely contributed to the growth of VLSI and MEMS technology, Education and Manpower development in India.

Prof. V.K. Aatre was the Director General of DRDO and Scientific Adviser to the Defence Minister, Government of India. He is a Fellow of IEEE and INAE and is a recipient of the prestigious Padma Bhushan Award in India. He initiated two national programmes on Micro and Smart Systems founded the Institute of Smart Structures and Systems (ISSS).

ABOUT THE BOOK

This book essentially deals with the basics of microsystem technology and is intended principally as a textbook at the undergraduate level; however, it can also be used as a background book at the postgraduate level. The book makes an effort to provide an introduction to smart materials and systems. The authors present the

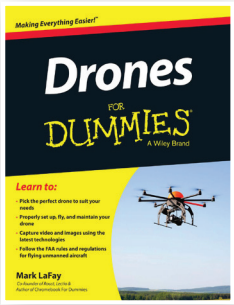
material without assuming much prior disciplinary background. The aim of this book is to present adequate modeling details so that readers can appreciate the analysis involved in microsystems (and to some extent, smart systems) and thereby enable them to get an in-depth understanding about simulation and design.

TABLE OF CONTENTS

• Micro Sensors, Actuators, Systems and Smart Materials: An Overview • Micromachining Technologies • Micromachining Technologies • Modeling of Solids in Microsystems • Finite Element Method • Modeling of Coupled Electromechanical Systems • Electronics Circuits and Control for Micro and Smart Systems • Integration of Micro and Smart Systems • Scaling Effects in Microsystems

9788126520701 | Pages: 480 | ₹ 1050

EMERGING TECHNOLOGY



Drones for Dummies | e

Mark Lafay

ABOUT THE AUTHOR

Mark LaFay is COO and founder of DCODIA and cofounder of Conversion in a Box. Author has 12-years of experience in the music business and marketing. LaFay assisted in the growth of the events and entertainment division of Bohlsen Group, an Indianapolis-Based PR firm.

ABOUT THE BOOK

The book gives readers information for finding and purchasing the right drone to suit their needs, examples on ways to use the drone including drone etiquette. Users learn the basics of flight, including coverage of the laws governing consumer drone usage and suggestions and examples of ways to use drones to capture photos and video. Drones For Dummies provides readers with the information and skills they need to discover cool ways to expand their drone's use beyond simply flying -- all in the easy-to-understand, casual, fun and informative style found in all For Dummies books.

TABLE OF CONTENTS

• Getting Started with Drones • Before You Fly • Miracle of Flight • Aerial Photos and Videos • The Part of Tens

9788126554430 | Pages: 292 | ₹ 959



Internet of Things, An Indian Adaptation : Concepts and Applications | e

Simone Cirani, Marco Picone, Luca Veltri, Daniel Minoli, Hakima Chaouchi

ABOUT THE AUTHOR

Simone Cirani is a Co-Founder and Head of IoT at Caligoo Inc., Chicago, IL, USA.

Gianluigi Ferrari is a Faculty Member at the Department of Engineering and Architecture, at the University of Parma, Italy. He is also Co-founder and President of things2i s.r.l., Parma, Italy.

Marco Picone is a Co-Founder and Head of Mobile Computing at Caligoo Inc., Chicago, IL, USA.

Luca Veltri is a Faculty Member at the Department of Engineering and Architecture, at the University of Parma, Italy.

Daniel Minoli has worked extensively in Internet and IP engineering, design, and implementations at organizations including Telcordia (Bellcore), Prudential Securities, AT&T, Capital One Financial, and Gartner/DataPro.

Hakima Chaouchi is a Full Professor at Institut Mines Telecom following the completion of her PhD in 2004 from University of Paris VI in France and King's College of London in the UK.

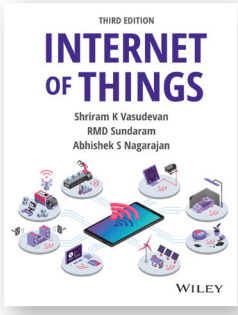
ABOUT THE BOOK

Internet of Things: Concepts and Applications aims to explore the main aspects of the IoT ecosystem, without attempting to be an exhaustive treatment on the subject. The contents of the book flow from preliminary overview on the IoT concepts and applications to more technical details that include IoT architecture, reference layers and protocols as well as enabling platforms. The aspects of security and privacy, suitability of 5G and various computing tools are also covered. Extensive application domains are illustrated with used case. The intended audience of the book is academic – undergraduate and postgraduate engineering students, and industry professionals.

TABLE OF CONTENTS

• Introduction to Internet of Things • Internet of Things Architecture • IoT Reference Layers and Protocol Stacks • IoT Enabling Platforms • Security and Privacy in IoT • Computing Tools • 5G an IoT Enabler • Applications and Case Study

9789354247842 | Pages: 264 | ₹ 850



Internet of Things, 3ed | e | IM

Shriram K Vasudevan, RMD Sundaram, Abhishek S Nagarajan

ABOUT THE AUTHOR

Dr. Shriram Vasudevan is a distinguished Technology Leader at Intel, boasting over 17 years of experience across both industry and academia. Holding a Doctorate in Embedded Systems, he has made remarkable contributions to technology, research and education. His passion for innovation is evident in his extensive body of work, including 47 authored books published by esteemed publishers such as Taylor & Francis, Wiley and Oxford University Press.

Dr. Shriram's influence extends to public speaking, where he is a TEDx speaker and an ACM Distinguished Speaker, inspiring audiences globally. As a TOP AI Evangelist, he actively shares cutting-edge insights, fostering a strong tech community. His passion for education is further reflected in his 51K+ YouTube subscribers, where he continues to empower aspiring technologists and researchers.

R. M. D. Sundaram is a Software Architect at Wipro Limited in Italy, with over 20 years of experience in embedded software design and development. He has contributed to the software architecture and development of numerous products currently in use, such as infotainment systems, Android-based smartphones and tablets, 4G LTE and 5G modems, set-top boxes and IoT devices. Sundaram holds an MTech in Computer Vision and Image Processing.

Abhishek S Nagarajan is working as a Data Scientist III in [24]7.ai in Bangalore. He is involved in projects focusing on Data Science and AI, with a particular interest in designing practical solutions that utilise data and AI. Recently, he has been working on campaign management models, while his previous experiences included augmented reality and AI-powered computer vision visual aids. He has authored six books on various fields of computer science and published over 10 papers in reputable journals worldwide.

ABOUT THE BOOK

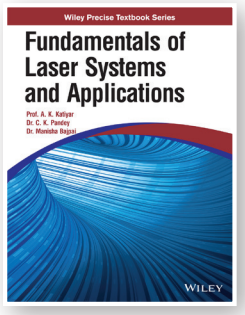
The third edition of Internet of Things builds on foundational concepts while incorporating the latest advancements in the field. It expands coverage on sensors, microcontrollers, and communication protocols, including IPv6. New topics such as digital twins, OpenVINO, and the integration of AI/ML in IoT systems are introduced. A dedicated chapter on emerging trends explores innovations like quantum computing, autonomous vehicles, and drones. The edition also enhances discussions on IoT applications, challenges, and machine learning models, making it a comprehensive and up-to-date resource for learners and professionals.

TABLE OF CONTENTS

• Introduction to Internet of Things (IoT) • Introduction to Sensors, Microcontrollers and Their Interfacing • Protocols for IoT • Cloud for IoT – A Detailed Analysis and Understanding • Data Analytics – Visualising the Power of Data from IoT • Emerging Trends in IoT • Applications Building with IoT

9789370609969 | Pages: 356 | ₹ 899

LASER SYSTEMS



Fundamentals of Laser Systems and Applications | e

Prof. A. K. Katiyar, Dr. C. K. Pandey, Dr. Manisha Bajpai

ABOUT THE AUTHOR

Dr. A. K. Katiyar is Professor in Department of Applied Sciences, Institute of Engineering & Technology, Lucknow has many years of teaching and research experience in various engineering institutes. He has published more than 40 research papers in different reputed International and National journals/conferences and attended various International and National conferences.

Dr. C. K. Pandey, his teaching and research experience spans nine years. He has published 30 research papers of which 23 are in reputed International and national Journals in the field of energy. He is also a referee of various reputed International journals.

ABOUT THE BOOK

This book has been written to serve as a text for revised syllabus of Laser System and Applications of Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow and other universities where such types of courses are running. The requirements of the students have been fulfilled by explaining the basic principles of laser action, components of laser, various systems involved in lasers and types of lasers with characteristics and applications of lasers in a simple and systematic manner. Sufficient exercises provided at the end of each chapter give this book an edge over other conventional texts.

TABLE OF CONTENTS

• Basic Principle of Modern Physics • Elements and Techniques of Lasers • Principle of Lasers and General Lasers • Types of Laser Systems • Applications of Lasers

9788126568260 | Pages: 244 | ₹ 551

MICROELETRONICS



Microelectronics, An Indian Adaptation | e | IM

Behzad Razavi

ABOUT THE AUTHOR

David Pozar is professor of Electrical and Computer Engineering at University of Massachusetts, Amherst. He has received numerous awards both for his teaching and for his research, including an IEEE Third Millenium award. Dr. Pozar is acknowledged as a leading figure in Microwave and RF circuit design research.

ABOUT THE BOOK

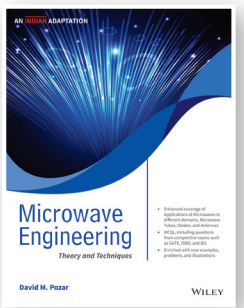
Microwave Engineering: Theory and Techniques is a self-sustaining literature for an undergraduate as well as a graduate program on the principles of microwave engineering. The book provides a comprehensive discourse of the fundamentals of the subject and design principles as applied to modern RF and microwave engineering. Starting with the fundamental principles of electromagnetic theory, the book goes on to cover microwave network analysis, impedance matching, directional couplers and hybrids, microwave filters, ferrite devices, noise, nonlinear effects, and the design of microwave oscillators, amplifiers, and mixers.

TABLE OF CONTENTS

• Review of Electromagnetic Theory • Transmission Line Theory • Transmission Lines and Waveguides • Microwave Network Analysis • Impedance Matching and Tuning • Microwave Resonators • Power Dividers and Directional Couplers • Microwave Filters • Theory and Design of Ferrimagnetic Components • Noise and Nonlinear Distortion • Active RF And Microwave Devices • Microwave Amplifier Design • Oscillators and Mixers • Introduction to Microwave Systems

9789388991063 | Pages: 840 | ₹ 1149

MICROWAVE ENGINEERING



Microwave Engineering, An Indian Adaptation : Theory and Techniques | e | IM

David M. Pozar

ABOUT THE AUTHOR

David Pozar is professor of Electrical and Computer Engineering at University of Massachusetts, Amherst. He has received numerous awards both for his teaching and for his research, including an IEEE Third Millenium award. Dr. Pozar is acknowledged as a leading figure in Microwave and RF circuit design research.

ABOUT THE BOOK

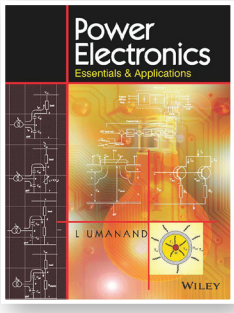
Microwave Engineering: Theory and Techniques is a self-sustaining literature for an undergraduate as well as a graduate program on the principles of microwave engineering. The book provides a comprehensive discourse of the fundamentals of the subject and design principles as applied to modern RF and microwave engineering. Starting with the fundamental principles of electromagnetic theory, the book goes on to cover microwave network analysis, impedance matching, directional couplers and hybrids, microwave filters, ferrite devices, noise, nonlinear effects, and the design of microwave oscillators, amplifiers, and mixers. Material on microwave and RF systems includes wireless communication, radar, radiometry, and radiation hazards.

TABLE OF CONTENTS

• Review of Electromagnetic Theory • Transmission Line Theory • Transmission Lines and Waveguides • Microwave Network Analysis • Impedance Matching and Tuning • Microwave Resonators • Power Dividers and Directional Couplers • Microwave Filters • Theory and Design of Ferrimagnetic Components • Noise and Nonlinear Distortion • Active RF and Microwave Devices • Microwave Amplifier Design • Oscillators and Mixers • Introduction to Microwave Systems

9789388991087 | Pages: 658 | ₹ 1070

POWER ELECTRONICS



Power Electronics: Essentials & Applications | e | IM

L. Umanand

ABOUT THE AUTHOR

Loganathan Umanand is a Principal Research Scientist at the Centre for Electronics Design and Technology (CEDT), Indian Institute of Science (IISc), Bangalore. His primary area of interest is renewable energy systems which involve research in wide-ranging disciplines like reliability, motor drives, controls, inverters, switched-mode converters, battery chargers. Some of the application areas where research work is being carried out are hybrid generation systems, multi-grid energy ports, hybrid electric vehicles, desalination of sea water, solar cooking and bond graph modeling of physical systems.

ABOUT THE BOOK

This book on power electronics spans a wide knowledge base such as power devices, drives, circuit topologies, magnetics, system modeling, control configurations, digital processing, thermal and reliability aspects. The book has been broadly divided into two types of topics viz. (a) circuit-oriented aspects and (b) system-oriented aspects. The first seven chapters deal with circuit-oriented aspects of power electronics systems and the remaining chapters deal with system-oriented aspects like controls and reliability.

TABLE OF CONTENTS

• Power Semiconductor Switches • Drive Circuits • Rectifiers • DC-DC Linear Regulators • DC-DC Switched-Mode Converters • DC-AC Switched-Mode Converters • Design of Magnetics • Modeling of Systems • Control System Essentials • Optimal and Robust Controller Design • Discrete Computation Essentials • Thermal Aspects • Reliability Modeling • Reliability Prediction

9788126519453 | Pages: 944 | ₹ 1059



Power Electronics, 3ed (An Indian Adaptation) : Converters, Applications, and Design | e | IM

Ned Mohan , Tore M. Undeland , William P. Robbins

ABOUT THE AUTHOR

"Ned Mohan is the Oscar A. Schott Professor of Power Electronics at the University of Minnesota, He has numerous patents and publications in this field. He is a Fellow of the IEEE.

Tore M. Undeland is a professor in Power Electronics in the Faculty of Information Technology, Mathematics and Electrical Engineering at the Norwegian University of Science and Technology, NTNU, Trondheim, Norway. He is also a scientific advisor to the SINTEF Energy Research.

William P. Robbins is a professor in the Department of Electrical and Computer Engineering at the University of Minnesota. Prior to joining the University of Minnesota, he was a research engineer at the Boeing Company.

ABOUT THE BOOK

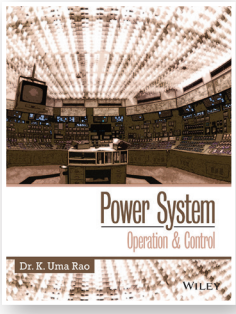
Power Electronics offers cohesive and in-depth presentation of power electronics fundamentals for applications and design in an easy-to-follow step-by-step manner. A detailed coverage of practical and emerging power electronic converters based on new generation of power semiconductor devices is also included. This Indian Adaptation of the third edition of the book builds on the conceptual strength of the previous editions, reorganizes topic coverage at places and offers new content.

TABLE OF CONTENTS

• Semiconductor Devices • Power Electronic Circuits • Power Supply Applications • Other Applications • Practical Converter Design Considerations • Motor Drive Applications

9789354640278 | Pages: 740 | ₹ 1139

POWER SYSTEMS



Power System: Operation & Control | e

Dr. K. Uma Rao

ABOUT THE AUTHOR

Dr. K. Uma Rao is a Professor in the Department of Electrical Engineering, at R.V. College of Engineering, Bangalore. She received her PhD degree from Indian Institute of Science, Bangalore, in 1996. Dr. Rao has 25 years of experience in teaching and research. She is author of nine books in different areas of Electrical Sciences. Her research areas include power quality, power system dynamics, FACTS and energy management.

ABOUT THE BOOK

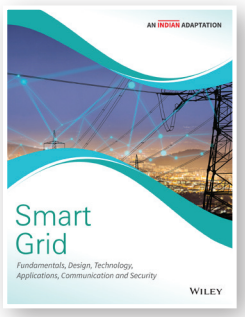
This book is aimed at instilling confidence and understanding of the concepts in students. It is also useful for practicing electrical engineers. As power system operation and control is an advanced

subject, therefore, familiarity with basic electrical engineering concepts and fundamentals of power system analysis is assumed. Every chapter has a number of tutorials included to facilitate the reader in comprehending the subject better.

TABLE OF CONTENTS

• Introduction to Power System Operation and Control • Modelling of Power System Components • Economic Operation of Power Systems • Unit Commitment • Hydrothermal Scheduling • Automatic Generation Control • AGC in Interconnected Power Systems • Voltage and Reactive Power Control • Power System Reliability and Security • Load Forecasting • Introduction to State Estimation of Power Systems • Supervisory Control and Data Acquisition • Recent Trends in Power System Operation and Control

9788126534418 | Pages: 548 | ₹ 949



Smart Grid, An Indian Adaptation : Fundamentals, Design, Technology, Applications, Communication and Security | e

Akihiko Yokoyama, James Momoh, Janaka Ekanayake, Jianzhong Wu, Kithsiri M. Liyanage, Krzysztof Iniewski, Lars Torsten Berger, Nick Jenkins

ABOUT THE AUTHOR

Akihiko Yokoyama has been a Visiting Scholar at the University of Texas at Arlington and the University of California at Berkeley. His main research interests include power system analysis and control and Smart Grids. He is a Senior Member of the Institute of Electrical Engineers of Japan (IEEJ), the Japan Society for Industrial and Applied Mathematics (JSIAM), the IEEE and a member of CIGRE.

James Momoh is Professor in the Department of Electrical and Computer Engineering and Director of the Center for Energy Systems and Control at Howard University. He also serves as Principal Consultant at Bonneville Power Administration.

Janaka Ekanayake is presently a Senior Lecturer at Cardiff University, UK. Prior to that he was a Professor in the Department of Electrical and Electronic Engineering, University of Peradeniya.

Jianzhong Wu has been a lecturer at the Cardiff School of Engineering. His main research interests include Energy Infrastructure and Smart Grids. He is a member of the IET, the IEEE and the ACM. He has published more than 30 papers and co-authored one book.

Kithsiri M. Liyanage is attached to the Department of Electrical and Electronic Engineering, University of Peradeniya, Sri Lanka, as a Professor. He was a Visiting Scientist at the Department of Electrical Engineering, the University of Washington, from 1993 to 1994 and a Visiting Research Fellow at the Advanced Centre for Power and Environmental Technology, the University of Tokyo, Japan, from 2008 to 2010.

Krzysztof Iniewski is managing R&D at Redlen Technologies Inc., a start-up company in Vancouver, Canada. Redlen's revolutionary production process for advanced semiconductor materials enables a new generation of more accurate, all-digital, radiation-based imaging solutions. He is also Executive Director of CMOS Emerging Technologies.

Lars Torsten Berger is founder of BreezeSolve, a Valencia-based company offering engineering and consultant services in telecommunications, signal processing, and smart grid. He is currently also directing the R&D Department of Kenus Informática, Paterna, Spain. In his career, Dr. Berger has worked for Daimler-Benz Aerospace, Nortel Networks, Nokia Networks, as well as DS2, and has held faculty positions at Aalborg University, Denmark, and Universidad Carlos III de Madrid, Spain.

Nick Jenkins was at the University of Manchester (UMIST) from 1992 to 2008. He then moved to Cardiff University where he is now Professor of Renewable Energy. His previous career had included 14 years industrial experience, of which five years were in developing countries.

ABOUT THE BOOK

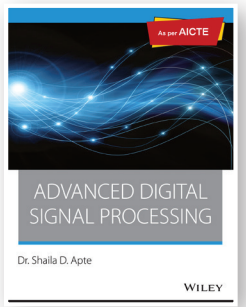
Electric power systems worldwide are facing a radical change stimulated by the pressing need to de-carbonise electricity supply, replace ageing assets, and make effective use of the rapidly developing Information and Communication Technologies for better monitoring and control of power grids. In conventional grids, participation of the consumer in grid operation and control is almost nil. However, this has changed with the advent of fast communication technology and smart metering techniques, which permit consumers to participate in grid operation.

TABLE OF CONTENTS

• Introduction to Smart Grid and Architectural Designs • Measurement and Monitoring in Smart Grid • Communication Technologies for Smart Grid • Renewable Energy Sources and Storage in Smart Grid • Transmission and Distribution for Smart Grid • Analysis Tools for Smart Grid • Interoperability, Cyber Security, and Standards • Role of Electric Vehicles in Smart Grid • Case Studies and Testbeds for Smart Grid • Indian Smart Grid Scenario

9789354243219 | Pages: 360 | ₹ 899

SIGNAL PROCESSING



Advanced Digital Signal Processing, As per AICTE | e

Dr. Shaila D. Apte

ABOUT THE AUTHOR

Dr. Shaila Dinkar Apte has been teaching at Walchand College of Engineering, Sangli (Maharashtra) for last 27 years of which she has been teaching DSP in UG courses for 17 years and Advanced DSP in PG courses for 8 years. Besides teaching DSP, she has also taught subjects like Digital Communication, Communication Systems, Mobile Communication, Random Signals and Processes, etc. She is currently working as a professor in Rajarshi Shahu College of Engineering, Pune.

Dr. Apte did her Masters in Electronics and Ph.D. both from Shivaji University and Walchand College of Engineering, Sangli, Maharashtra. Her Ph.D. thesis is in the field of speech processing. Dr. Apte has published several research papers in International Journals and conferences in the same area.

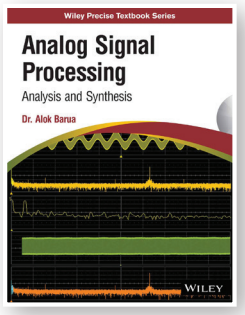
ABOUT THE BOOK

The book is systematically designed to provide rigorous treatment of Advanced Digital Signal Processing. It is a student-friendly book rich in technical contents. It contains advanced techniques in Digital Signal Processing that are self-explanatory, with lots of practical examples for speech and image processing. This book aims to create solid foundation for specialized courses in signal processing for B Tech and M Tech students. The results of number of practical experiments are included for giving motivation and guidelines to the students.

TABLE OF CONTENTS

• Random Signals and Processes • Discrete Fourier Transform and its Applications • FIR and Adaptive FIR Filter Design • IIR and Adaptive IIR Filter Design • Linear Prediction • Spectral Estimation • Multirate DSP and Applications • DCT, WT, and Applications • Introduction to Digital Signal Processors

9788126508839 | Pages: 552 | ₹ 950



Analog Signal Processing: Analysis and Synthesis | e

Dr. Alok Barua

ABOUT THE AUTHOR

Dr. Alok Barua is Professor in the Department of Electrical Engineering, IIT Kharagpur. With more than twenty eight years of teaching experience in IIT, he has published many papers in his teaching and research areas - instrumentation, expert system based synthesis of circuits, testing and fault diagnosis of analog and mixed signal circuit, image processing, bioreactor, etc.

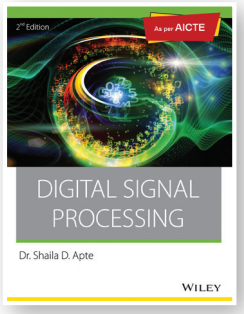
ABOUT THE BOOK

Analog Signal Processing is essential even for a digital system that has an analog signal as input. Analog Signal Processing: Analysis and Synthesis is a textbook for advanced undergraduate and graduate level students as well as circuit designers. It is addressed to Electrical, Electronic Engineering students and practicing engineers interested in instrumentation system design and in understanding the analysis and synthesis of signal processing in analog domain. A basic knowledge of analog circuits is desirable but not essential.

TABLE OF CONTENTS

• Chapter 1 Fundamentals of Analog Signal Processing • Chapter 2 Analysis • Chapter 3 Synthesis • Chapter 4 High Pole Selectivity Filter • Chapter 5 High-Order Filter Design • Chapter 6 Oscillators • Chapter 7 Switched Capacitor Circuits • Chapter 8 Switched Current Techniques • Chapter 9 Approximation Functions

9788126541980 | Pages: 296 | ₹ 859



Digital Signal Processing, 2ed, As per AICTE | e

Dr. Shaila D. Apte

ABOUT THE AUTHOR

Dr. Shaila Dinkar Apte is currently working as a Professor in Rajarshi Shahu College of Engineering, Pune and as a reviewer for the International Journal of Speech Technology by Springer Publication, International Journal of Digital Signal Processing, Elsevier Publication and Bulletin of Pure and Applied Mathematics (BPAM). She is currently guiding 8 PhD candidates and about 23 candidates completed their M.E. dissertations under her guidance. With a vast teaching experience of 28 years in Electronics Engineering, she enjoys great popularity amongst students. She has been teaching Digital Signal Processing for the last 18 years.

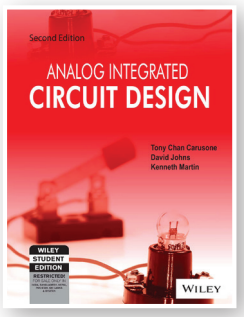
ABOUT THE BOOK

The scope of the book has been increased to cover the syllabi of DSP course all over India and to enhance the practical guidance in the book by including the MATLAB programs for teachers teaching the subject for the first time. The efforts are made to enhance the scope of the book to its fullest possible extent by and to include large number of MATLAB programs for the benefit of the reader. The book is intended to provide rigorous treatment of DSP at undergraduate level and will serve as a textbook for undergraduate studies and is designed to provide solid foundation for specialized courses in DSP.

TABLE OF CONTENTS

• Fundamentals of DSP • Sampling • Discrete Time Signals and Systems • Z Transform • Discrete Fourier Transform • Linear Time-Invariant Filter Realization • FIR Filter Design • IIR Filter Design • Quantization Effects in IIR Filters • Multirate DSP • Other Transforms • Introduction to Wavelet Transform • Introduction to Digital Signal Processors

9788126510733 | Pages: 488 | ₹ 947



Signals and Systems, 2ed, An Indian Adaptation | e | IM

Simon Haykin, Barry Van Veen

ABOUT THE AUTHOR

Simon Haykin is a University Professor at McMaster University, Hamilton, Ontario, Canada. His research interests include nonlinear dynamics, neural networks and adaptive filters and their applications in radar and communication systems. Dr. Haykin is the editor for a series of books on ""Adaptive and Learning Systems for Signal Processing, Communications and Control"" published by John Wiley & Sons, Inc. He is both an IEEE Fellow and Fellow of the Royal Society of Canada.

Barry Van Veen is Professor, University of Wisconsin, USA.

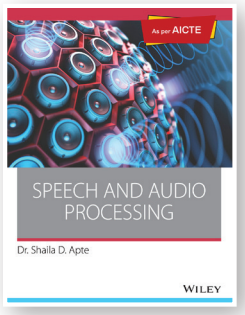
ABOUT THE BOOK

Signals and Systems is a well-established textbook, suitable for an undergraduate level course on signals and systems for students in electronics and communication, electrical and electronics, and computer science engineering programs. The book introduces the concepts of signals and systems, classification and operations on signals, and then focuses on system analysis using Fourier analysis, and Laplace and z-transforms. It then concentrates on the aspects that are most relevant for applications such as communication systems, design of filters, and control systems.

TABLE OF CONTENTS

• Time-Domain Representations of Linear Time-Invariant Systems • Fourier Representations of Signals and Linear Time-Invariant Systems • Applications of Fourier Representations to Mixed Signal Classes • Laplace Transform • Z-Transform • Application to Communication Systems • Application to Filters and Equalizers • Application to Linear Feedback Systems

9788126543939 | Pages: 812| ₹ 1129



Speech and Audio Processing, As per AICTE | e

Dr. Shaila D. Apte

ABOUT THE AUTHOR

Dr. Shaila Dinkar Apte is currently working as a Professor at Rajarshi Shahu College of Engineering, Pune. She has formerly been an Assistant Professor in Walchand College of Engineering, Sangli, for 27 years; a member of the Board of Studies at Shivaji University and a Principal Investigator for a research project sponsored by the Armament Research and Development Establishment (ARDE), New Delhi.

ABOUT THE BOOK

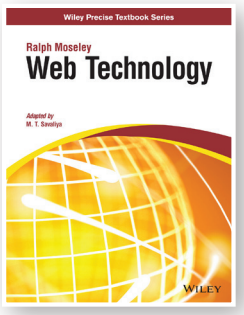
Speech and Audio Processing is a text targeted towards the final year undergraduate Speech Processing course and PG students in ECE, CS, and IT streams. This book aims at explaining the basic concepts in a clear-cut and simplified manner. It begins with the human speech production mechanism and then goes on to the fundamental parameters of speech such as pitch frequency, formants, spectral features like log spectrum, 3-D spectrogram, cepstral features, MFCC, linear prediction coefficients, transform-domain parameters, template matching techniques, etc.

TABLE OF CONTENTS

• Fundamentals of Speech • Parameters of Speech: Pitch and Formants • Spectral Parameters of Speech • Linear Prediction of Speech 143 • Speech Quantization and Coding • Speech Processing Applications • Speech Synthesis • Basics of Musical Instruments and Music Synthesis

9788126540389 | Pages: 464 | ₹ 957

WEB DEVELOPMENT



Ralph Moseley Web Technology

M.T. Savaliya

ABOUT THE AUTHOR

Prof. M.T. Savaliya is currently working as an Associate Professor of Computer Engineering at the Vishwakarma Government Engineering College, Chandkheda, Ahmedabad, Gujarat. He has about 25 years of teaching experience in Undergraduate (UG) and Postgraduate (PG) courses in Computer Science / Engineering and Information Technology.

ABOUT THE BOOK

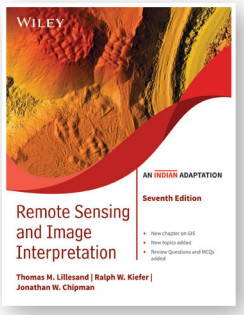
This book is intended to respond to the growing needs of knowing wide range of Web technologies by the students of Computer Science / Engineering and Information Technology. The approach taken is to provide the students with integrated view of Web technologies and tools to develop the Web applications by using appropriate combinations elaborated nicely throughout the book. This book covers the Web design concepts and Web development technologies from both conceptual and syntactical aspects that include HTML, XHTML, CSS, JavaScript, XML, PHP and MySQL.

TABLE OF CONTENTS

• The Way the Web Works • Designing an Effective Web Site • The Client Side: HTML • From HTML to XHTML • Getting Some Style: CSS • JavaScript: Introduction to Client Side Scripting • JavaScript: Developing More Advanced Scripts • DHTML • XML: Extensible Markup Language • XML, XSL and XSLT: Transforming XML • PHP 1: Starting to Script on the Server Side • PHP 2: Arrays, Functions and Forms • More Advanced PHP • Using MySQL Database with PHP

9788126559510 | Pages: 356 | ₹ 700

WIRELESS COMMUNICATION



Remote Sensing and Image Interpretation,7ed (An Indian Adaptation) | e | IM

Thomas Lillesand, Ralph W. Kiefer, Jonathan Chipman, Dr. P. K. Champati Ray

ABOUT THE BOOK

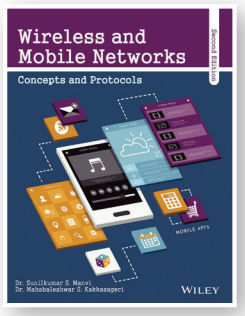
"Remote Sensing and Image Interpretation is designed to be primarily used in two ways: as a textbook in the introductory courses in remote sensing and image interpretation, and as a reference for the burgeoning number of practitioners who use geospatial information and analysis in their work. Because of the wide range of academic and professional settings in which this book might be used, the discussion has been made "discipline neutral." In short, anyone involved in geospatial data acquisition and analysis should find this book to be a valuable resource.

TABLE OF CONTENTS

• Concepts and Foundations of Remote Sensing • Elements of Photographic Systems • Basic Principles of Photogrammetry • Multispectral, Thermal, and Hyperspectral Sensing • Earth Resource Satellites Operating in the Optical Spectrum • Microwave, Lidar, and Geophysical Sensing • Digital Image Analysis • Applications of Remote Sensing • Geographic Information Systems

9789354642104 | Pages: 740 | ₹ 1189

WIRELESS NETWORKS



Wireless and Mobile Networks, Concepts and Protocols, 2ed.

Sunilkumar S. Manvi, Mahabaleshwar S. Kakkasageri

ABOUT THE AUTHOR

Dr. Sunilkumar S. Manvi is the Director, School of Computing and Information Technology, Reva University, Bangalore. He has published over 25 papers in referred national / international Journals and 70 papers in referred national / international conferences. Three of his papers "Agent technology applications in communications", "Multicast Routing in MANETs by using Multiagent Systems" and "Intelligent Product information presentation in E-Commerce" were among the top downloaded articles published by Elsevier Journals "Computer Communications", "Information Sciences" and "Journal of System software", respectively.

Dr. Mahabaleshwar S. Kakkasageri is serving as a Associate Professor in the Department of Electronics and Communication Engineering, Basaveshwar Engineering College, Bagalkot, Karnataka."

ABOUT THE BOOK

"The book provides an explanation on the wireless network concepts, architectures, protocols, and applications. It covers the wireless networks such as wireless body area network (WBAN), wireless local area networks (WLANs), wireless metropolitan area networks (WMANs), wireless wide area network (WWAN), wireless sensor networks, wireless vehicle networks and research challenges in wireless networks. The book addresses the design issues and explores various emerging protocols for wireless networks.

TABLE OF CONTENTS

• Fundamentals of Wireless Communication • Basics of Wireless Networks • Wireless Body Area Networks • Wireless Personal Area Networks • Wireless Local Area Networks • Wireless Metropolitan Area Networks • Wireless Wide Area Networks • Wireless Ad Hoc Networks • Research Issues in Wireless Networks • Delay Tolerant Networks • 4G LTE Networks • Wireless Network Security

9788126558551 | Pages: 492 | ₹ 957

ISBN	Author	Title	Price (₹)	Qty
		ANALOG ELECTRONICS		
9788126543939	Carusone	Analog Integrated Circuit Design, 2ed, ISV **(Pg. 2)**	1499	
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