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Electrical, Electronics & Instrumentation Engineering

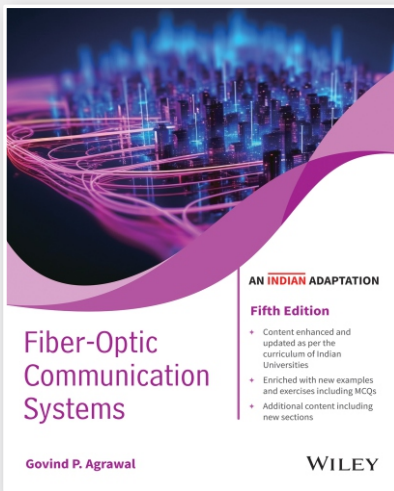
Wiley Academic Catalog

2024

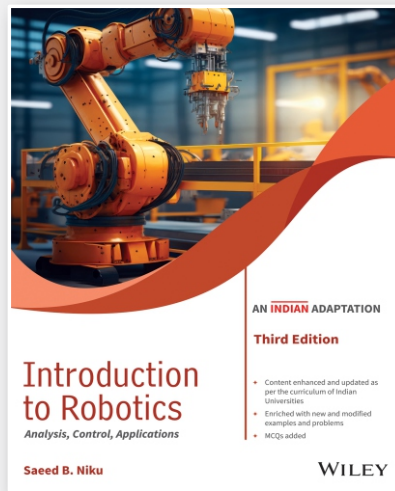
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New Releases



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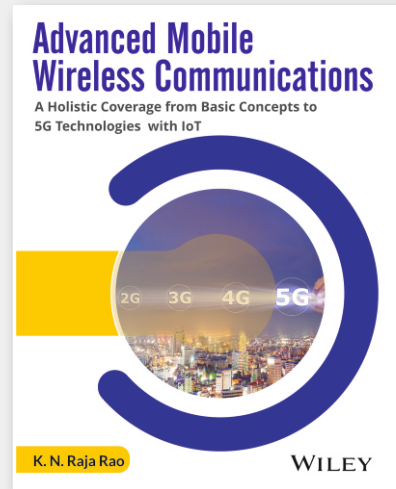
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9789357463980 ₹ 1399

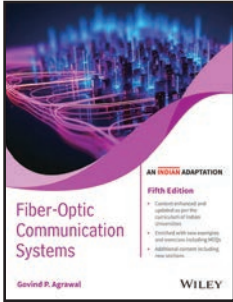


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Electrical, Electronics & Instrumentation Engineering



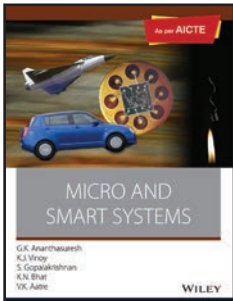
Fiber-Optic Communication Systems, 5ed, An Indian Adaptation | New | e

Agrawal

Description

• 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

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Micro and Smart Systems: As per AICTE

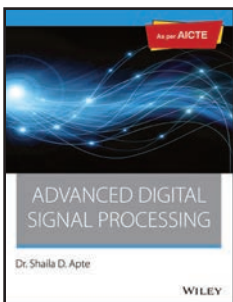
Ananthasuresh

Description

• 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

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Advanced Digital Signal Processing: As per AICTE, w/cd | e

Apte

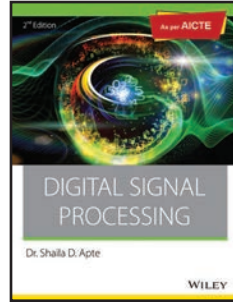
Description

• 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 | ₹ 829

e - eBook, IM - Instructor Manual, BS - Bestseller, k - Kindle



Digital Signal Processing, 2ed: As per AICTE, w/cd | e

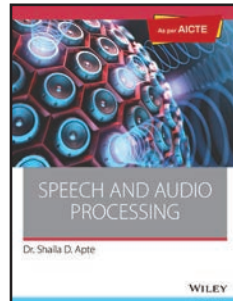
Apte

Description

• 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

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Speech and Audio Processing: As per AICTE | e

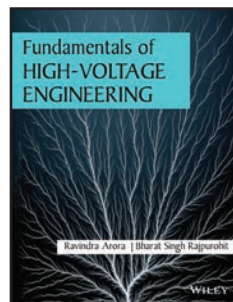
Apte

Description

• 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 | ₹ 869



Fundamentals of High-Voltage Engineering | IM | e | k

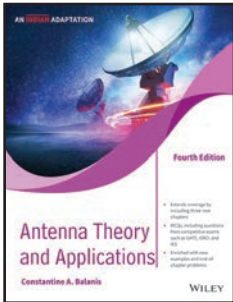
Arora

Description

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.

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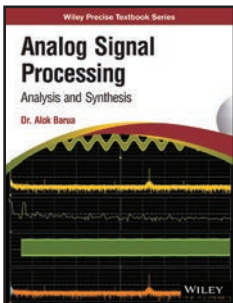
Antenna Theory and Applications, 4ed, An Indian Adaptation | IM | BS | e | k

Balanis

Description

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.

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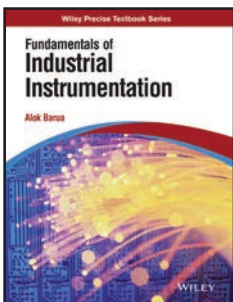
Analog Signal Processing: Analysis and Synthesis, w/cd | e | k

Barua

Description

• Analysis • Synthesis • High Pole Selectivity Filter • High-Order Filter Design • Oscillators • Switched Capacitor Circuits • Switched Current Techniques • Approximation Functions

9788126541980 | ₹ 819



Fundamentals of Industrial Instrumentation | e | k

Barua

Description

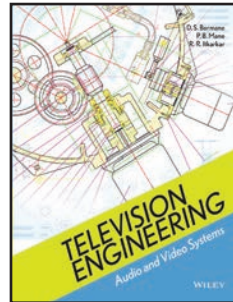
• Strain, Load, and Torque Measurement • Temperature Sensors • Displacement Measurement • Pressure Sensors • Flowmeter • Flapper-Nozzle System • Signal Conditioning Circuits • Piezoelectric Sensors • Ultrasonic Sensors • Measurement of Magnetic Field • Optoelectronic Sensors

pH and Viscosity Measurement • Dissolved Oxygen Sensors • Gas Chromatography • Pollution Measurement • Smart Sensors

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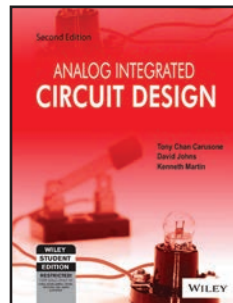
Television Engineering: Audio and Video Systems | e | k

Bormane

Description

• Fundamentals of Television System • Composite Video Signal • Television Signal Bandwidth and Transmission • Television Standards • Monochrome Television Receiver • Television Cameras • Picture Tubes • Essentials of Color Television • Color Television Receivers and Systems • Television Antenna and Propagation • Studio Equipment and Testing Equipment • Sound Recording and Reproduction • Digital TV and Display Devices • Digital TV Standards • HDTV and Advanced TV Systems

9788126556366 | ₹ 619



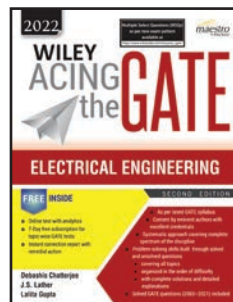
Analog Integrated Circuit Design, 2ed, ISV | IM | BS | e

Carusone

Description

• 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 • Index

9788126543939 | ₹ 999



Wiley Acing the GATE: Electrical Engineering, 2ed, 2022

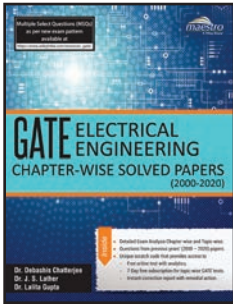
Chatterjee

Description

Wiley's Acing the GATE Examination in Electrical Engineering is intended to be the complete book for those aspiring to compete in the Graduate Aptitude Test in Engineering (GATE) in Electrical Engineering discipline.

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e - eBook, IM - Instructor Manual, BS - Bestseller, k - Kindle



Wiley's GATE Electrical Engineering Chapter-Wise Solved Papers (2000-2020) | e | k

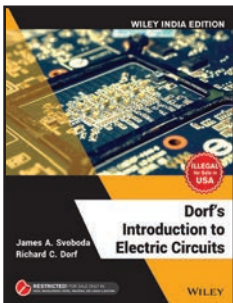
Chatterjee

Description

• Engineering Mathematics • Electric Circuits • Electromagnetic Fields • Signals and Systems • Electrical Machines • Power Systems • Control Systems • Electrical and Electronic Measurements • Analog and Digital Electronics • Power Electronics • Solved GATE (EE) 2019 • Solved GATE (EE) 2020

Solved GATE (EE) 2020

9788126571857 | ₹ 599



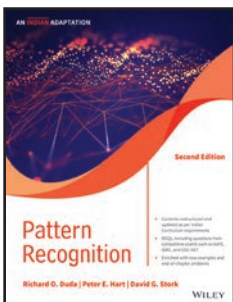
Dorf's Introduction to Electric Circuits, Wiley India Edition | e

Dorf

Description

Known for its clear problem-solving methodology and its 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.

9788126573493 | ₹ 1039



Pattern Recognition, 2ed, An Indian Adaptation | IM | BS | e | k

Duda

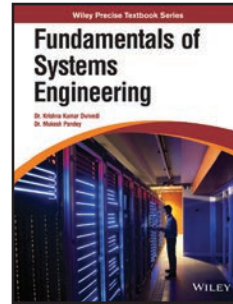
Description

• Introduction To Pattern Recognition • Bayesian Decision Theory • Maximum-Likelihood And Bayesian Parameter Estimation • Nonparametric Techniques • Linear Discriminant Functions • Artificial Neural Networks • Nonmetric Methods • Algorithm-Independent Machine Learning • Unsupervised Learning And Clustering • A Mathematical Foundations • Bibliographical Remarks • References • Index

Learning • Unsupervised Learning And Clustering • A Mathematical Foundations • Bibliographical Remarks • References • Index

9789354244391 | ₹ 749

e - eBook, IM - Instructor Manual, BS - Bestseller, k - Kindle



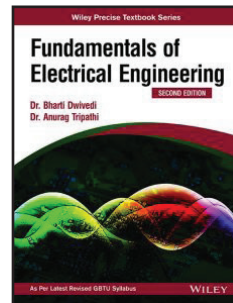
Fundamentals of Systems Engineering | e | k

Dwivedi

Description

• Foundation of Systems Engineering • Concept Development Stage • Engineering Development Stage • Post-Development Stage

9788126566549 | ₹ 519



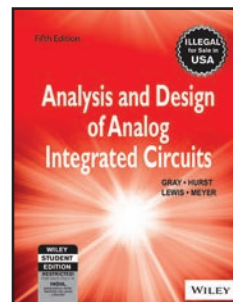
Fundamentals of Electrical Engineering, 2ed | e | k

Dwivedi

Description

•DC Circuit Analysis and Network Theorems •Steady-State Analysis of Single-Phase AC Circuits •Three-Phase System •Power System, Magnetic Circuit and Single-Phase Transformers •Electromechanical Energy Conversion •Miscellaneous Topics in Electrical Engineering

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

Gray

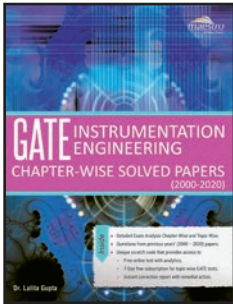
Description

•Models for Integrated-Circuit Active Devices•Bipolar, MOS, and BiCMOS Integrated-Circuit Technology•Single-Transistor and Multiple-Transistor Amplifiers•Current Mirrors, Active Loads, and References•Output Stages•Operational Amplifiers with Single-Ended

Outputs•Frequency Response of Integrated Circuits•Feedback•Frequency Response and Stability of Feedback Amplifiers•Nonlinear Analog Circuits•Noise in Integrated Circuits•Fully Differential Operational Amplifiers

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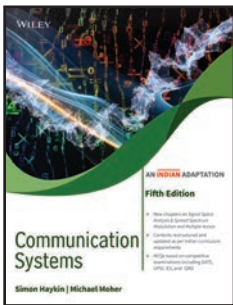
Wiley's GATE Instrumentation Engineering Chapter-wise Solved Papers (2000-2020) | k

Gupta

Description

• Engineering Mathematics • Electrical Circuits • Signals and Systems • Control Systems • Analog Electronics • Digital Electronics • Measurement • Sensors and Industrial Instrumentation • Communication and Optical Instrumentation • Solved GATE (IN) 2020

9788126558698 | ₹ 499



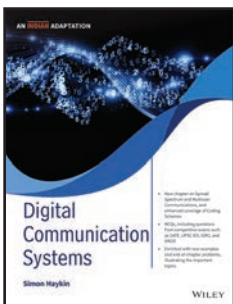
Communication Systems, 5ed, ISV, An Indian Adaptation | IM | BS | e | k

Haykin

Description

• 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 | ₹ 969



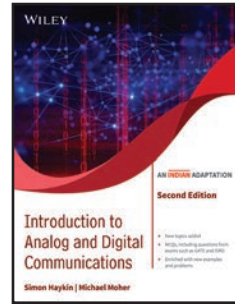
Digital Communication Systems, An Indian Adaptation | IM | BS | e | k

Haykin

Description

Digital Communication Systems is a comprehensive textbook, focusing on the core principles of digital communications and relating theory to practice.

9789354242465 | ₹ 949



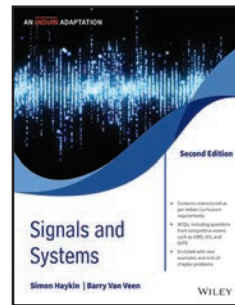
Introduction to Analog and Digital Communications, 2ed, An Indian Adaptation | IM | BS | e | k

Haykin

Description

• 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 | ₹ 999



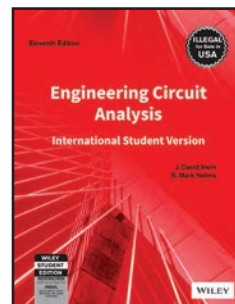
Signals and Systems, 2ed, An Indian Adaptation | IM | BS | e | k

Haykin

Description

• 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

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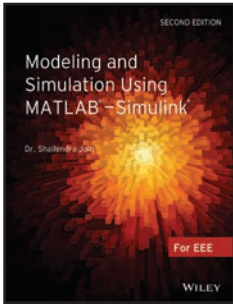
Engineering Circuit Analysis, 11ed, ISV | IM | e

Irwin

Description

• 1 Basic Concepts • 2 Resistive Circuits • 3 Nodal and Loop Analysis Techniques • 4 Operational Amplifiers • 5 Additional Analysis Techniques • 6 Capacitance and Inductance • 7 First- and Second-Order Transient Circuits • 8 AC Steady-State Analysis • 9 Steady-State Power Analysis • 10 Magnetically Coupled Networks • 11 Polyphase Circuits • 12 Variable Frequency Network Performance • 13 The Laplace Transform • 14 Application of the Laplace Transform to Circuit Analysis • 15 Fourier Analysis Techniques • 16 Two-Port Networks • 17 Diodes • Appendix • Complex Numbers • Index

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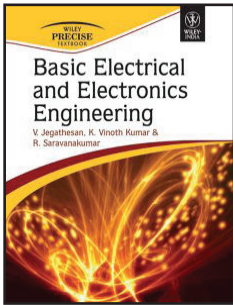
Modeling and Simulation using MATLAB - Simulink, 2ed, w/cd | e | k

Jain

Description

- 1 Simulation Mechanism and Simulation Tools • 2 Introduction to MATLAB • 3 MATLAB Basics • 4 Introduction to Plotting • 5 Programming in MATLAB • 6 Basic Electrical and Networks Applications • 7 Introduction to Simulink • 8 Control System Applications • 9 Power Electronics Applications • 10 Script File Approach to Model and Simulate Circuits • 11 Fuzzy Logic and Applications • Appendix A: Graphical User Interface • List of Important Commands • Bibliography • Index

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Basic Electrical and Electronics Engineering | e

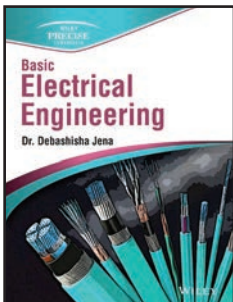
Jegathesan

Description

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.

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Basic Electrical Engineering | e | k

Jena

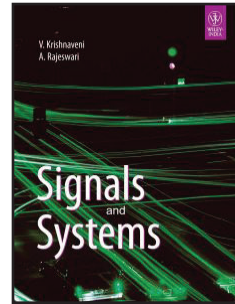
Description

- Fundamental of Electrical Circuits • Electrical Circuit Analysis • Time Domain DC Circuit Analysis • Magnetic Circuit • Single-Phase AC Circuit • Three-Phase AC Circuit • Transformer • Induction Motor • DC Machines • Three-Phase Synchronous Machines • Electrical Measurement

and Measuring Instruments • Electromechanical Energy Conversion • Operational Amplifiers • Power System and Home Electric System • Appendix

9788126536139 | ₹ 779

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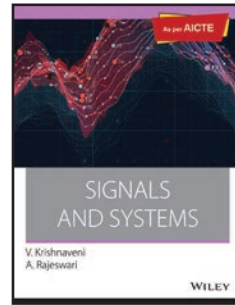
Signals and Systems | e | k

Krishnaveni

Description

- Overview of Signals and Systems • Continuous-Time and Discrete-Time Signals • Continuous-Time and Discrete-Time Systems • Linear Time-Invariant Systems • Fourier Analysis of Continuous-Time Signals and Systems • Sampling • Fourier Analysis of Discrete-Time Signals and Systems • Laplace Transform • z-Transform

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Signals and Systems: As per AICTE | e

Krishnaveni

Description

- Introduction to Signals and Systems • Continuous-Time and Discrete-Time Signals • Continuous-Time and Discrete-Time Systems • Linear Time-Invariant Systems • Fourier Analysis of Continuous-Time Signals and Systems • Sampling • Fourier Analysis of Discrete-Time Signals and Systems • Laplace Transform • z-Transform

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Quality Control | e | k

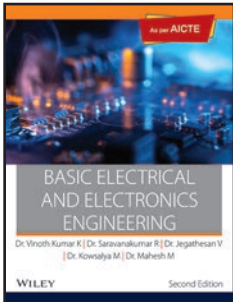
Kulkarni

Description

- Quality Concepts • Quality Milestones • Juran's Trilogy • Cost of Quality and Value of Quality • Total Quality Management • Statistical Quality Control and Acceptance Sampling • Taguchi's Quality Engineering • Six Sigma • Reliability, Availability and Maintainability • Quality Culture: A Global Paradigm Shift

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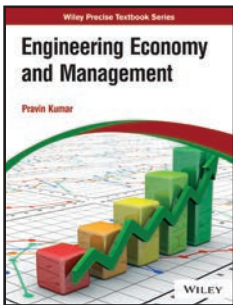
Basic Electrical and Electronics Engineering, 2ed | e | k

Kumar

Description

• 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

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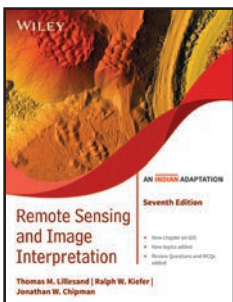
Engineering Economy and Management | e | k

Kumar

Description

• Introduction to Engineering Economics • Managerial Economics • Money, National Income, and Goods and Services Tax • Poverty, Unemployment, and Inflation • Banking Systems • Market Structures • Marketing Management • Concepts in Management • Human Resource Management • Corporate Social Responsibility and Business Ethics • Production and Operations Management • Demand Forecasting and Cost Estimation • Time Value of Money • Project Evaluation • Comparison Among Alternatives • Depreciation and Taxes • Replacement Analysis • Concept of Financial Statement • Financial Ratios • Capital Budgeting • Decision Making

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Remote Sensing and Image Interpretation, 7ed, An Indian Adaptation | IM | BS | e | k

Lillesand

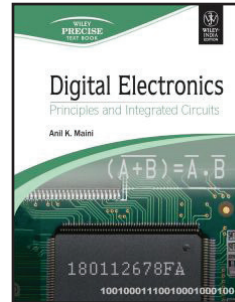
Description

• 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

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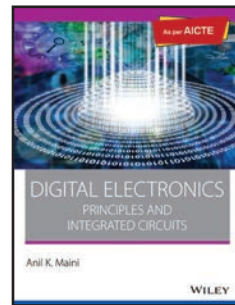
Digital Electronics: Principles and Integrated Circuits | e | k

Maini

Description

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

9788126514663 | ₹ 779



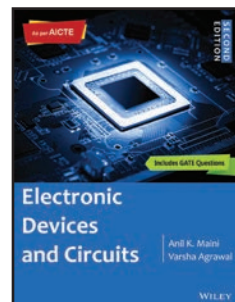
Digital Electronics: Principles and Integrated Circuits: As per AICTE | e

Maini

Description

• 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 | ₹ 809



Electronic Devices and Circuits, 2ed | IM | e | k

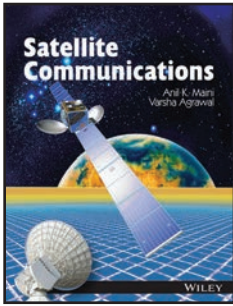
Maini

Description

• 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 | ₹ 979

e - eBook, IM - Instructor Manual, BS - Bestseller, k - Kindle



Satellite Communications | e | k

Maini

Description

• 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

9788126520718 | ₹ 839



Satellite Communications: As per AICTE | e

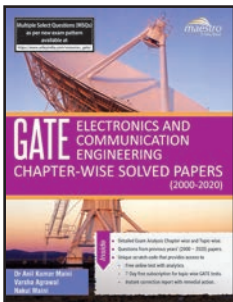
Maini

Description

• 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

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Wiley's GATE Electronics and Communication Engineering Chapter-wise Solved Papers (2000-2020) | e | k

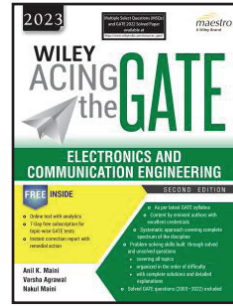
Maini

Description

• Preface • Note to the Aspirants • Engineering Mathematics• Networks, Signals and Systems • Electronic Devices • Analog Circuits • Digital Circuits• Control systems • Communications • Electromagnetics • Solved GATE (ECE) 2019• Solved GATE (ECE) 2020

9788126571956 | ₹ 599

e - eBook, IM - Instructor Manual, BS - Bestseller, k - Kindle



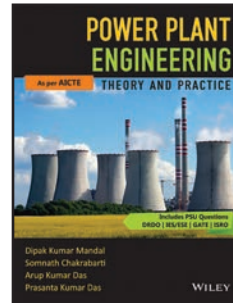
Wiley Acing the GATE: Electronics and Communication Engineering, 2ed, 2023

Maini

Description

• Networks, Signals and Systems • Electronic Devices • Analog Circuits • Digital Circuits • Control Systems • Communications • Electromagnetics

9789354644900 | ₹ 1069



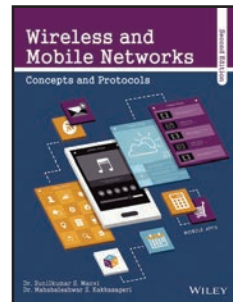
Power Plant Engineering: Theory and Practice | e | k

Mandal

Description

• Thermodynamic Vapour Power Cycles• Practical Power Plant Cycle• Fuel and Combustion• Steam Generator, Feed Cycle, Air and Flue Gas Path• Boiler Performance and Draught Systems• Steam Nozzles• Steam Turbine• Condenser, Circulating Water Systems and Water Treatment• Turbogenerator• Mechanical Control System• Basic Nuclear Power Generation• Basic Diesel Engine and Gas Turbine Power Plant• Basic Hydro-Electric (Hydel) Power Plant• Nonconventional Energy Systems• Power Plant and Its Economics

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Wireless and Mobile Networks, Concepts and Protocols, 2ed | IM | e | k

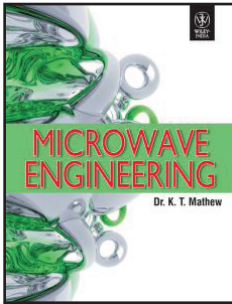
Manvi

Description

• 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

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Microwave Engineering | e | k

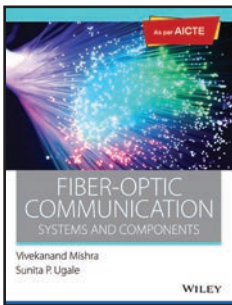
Mathew

Description

• Vector Identities and Operators • Coulomb's Law and Electric Potential • Magnetostatics and Magnetic Potential • Maxwell's Equations • Poynting's Theorem • Electromagnetic Wave Propagation • Microwave Generators • Transmission Lines • Theory of Waveguide

Transmission • Microwave Cavities and Hybrid Circuits • Basic Antenna Theory • Ionospheric Propagation and Fundamentals of Satellite Communications • Microwave Radio Communication and Radar • ISM Applications of Microwaves

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

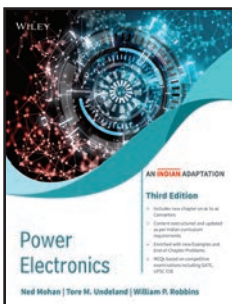
Mishra

Description

• 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

Instrumentation for Optical Measurements • Optical Sensors

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

Mohan

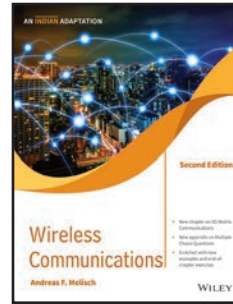
Description

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

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8

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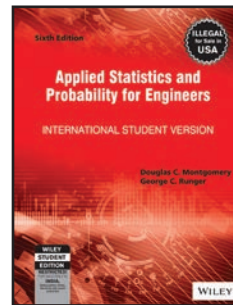
Wireless Communications, 2ed, An Indian Adaptation | IM | e | k

Molisch

Description

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

9789354248795 | ₹ 999



Applied Statistics and Probability for Engineers, 6ed, ISV | IM | BS | e

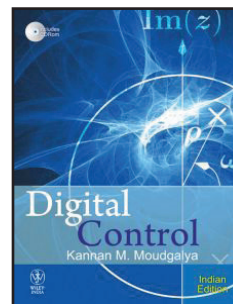
Montgomery

Description

• The Role of Statistics in Engineering • Probability • Discrete Random Variables and Probability Distributions • Continuous Random Variables and Probability Distributions • Joint Probability Distributions • Descriptive Statistics • Sampling Distributions and Point Estimation of

Parameters • Statistical Intervals for a Single Sample • Tests of Hypotheses for a Single Sample • Statistical Inference for Two Samples • Simple Linear Regression and Correlation • Multiple Linear Regression • Design and Analysis of Single-Factor Experiments: The Analysis of Variance • Design of Experiments with Several Factors • Statistical Quality Control

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Digital Control, w/cd

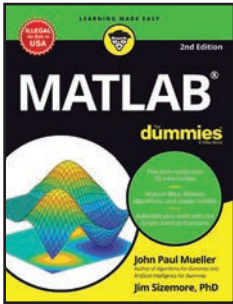
Moudgalya

Description

• Digital Signal Processing • Identification • Transfer Function Approach to Controller Design • State Space Approach to controller Design.

9788126522064 | ₹ 1079

e - eBook, IM - Instructor Manual, BS - Bestseller, k - Kindle



MATLAB for Dummies, 2ed

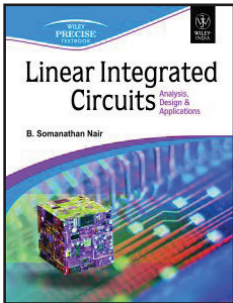
Mueller

Description

• Part 1: Getting Started With MATLAB • Part 2: Manipulating and Plotting Data in MATLAB • Part 3: Streamlining MATLAB • Part 4: Employing Advanced MATLAB Techniques • Part 5: Specific MATLAB Applications • Part 6: The Part of Tens • Appendix A:

MATLAB Functions • Appendix B: MATLAB's Plotting Routines • Index

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Linear Integrated Circuits: Analysis, Design & Applications | e | k

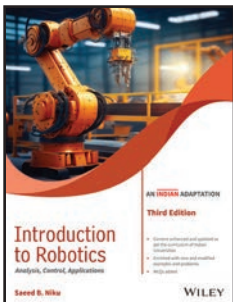
Nair

Description

• Direct-Coupled and Differential Amplifiers • Operational Amplifiers • Sinusoidal Oscillators • Non-Sinusoidal Oscillators • Active Filters • Switched-Capacitor Filters • Digital-to-Analog and Analog-to-Digital Converters • Voltage Regulators • Special-Purpose Integrated circuits

• Complementary MOS ICs • Integrated-Circuit Fabrication

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Introduction to Robotics: Analysis, Control, Applications, 3ed, An Indian Adaptation | New | e

Niku

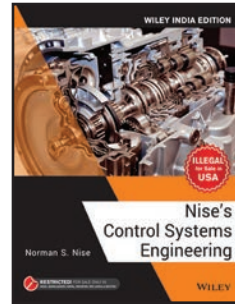
Description

• Fundamentals • Kinematics of Serial Robots: Position Analysis • Robot Kinematics with Screw-Based Mechanics • Kinematics Analysis of Parallel Robots • Differential Motions and Velocities • Dynamic and Force Analysis • Trajectory Planning • Motion Control Systems • Actuators

and Drive Systems • Sensors • Image Processing and Analysis with Vision Systems • Fuzzy Logic Control

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Nise's Control Systems Engineering, Wiley India Ed | IM | BS | e

Nise

Description

• Modeling in the Frequency Domain • Modeling in the Time Domain • Time Response • 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 • Digital Control Systems

State Space • Digital Control Systems

9788126571833 | ₹ 1159



Control Systems Engineering, 8ed, An Indian Adaptation | New

Nise

Description

• 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)

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Embedded Systems : A Contemporary Design Tool, 2ed, An Indian Adaptation | New

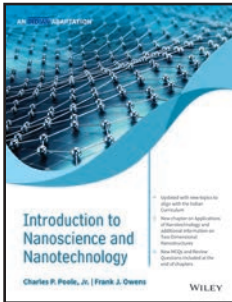
Peckol

Description

• Introduction • Fundamentals of Embedded Systems • Embedded Systems Architecture • Embedded Systems Design • Embedded Systems Development • Embedded Systems Testing • Embedded Systems Security • Embedded Systems Reliability • Embedded Systems Performance • Embedded Systems Integration • Embedded Systems Deployment • Embedded Systems Maintenance • Embedded Systems Upgrades • Embedded Systems End-of-Life

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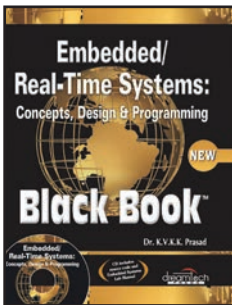
Introduction to Nanoscience and Nanotechnology, An Indian Adaptation | e | k

Poole

Description

This book is a comprehensive text and a ready reckoner on the theory and applications of nanotechnology. It provides an insight into the history of nanoscience and nanotechnology.

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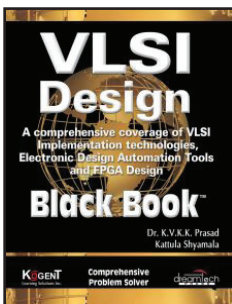
Embedded / Real-Time Systems: Concepts, Design and Programming Black Book, New ed

Prasad

Description

This book comprehensively covers the three main areas of the subject: concepts, design and programming. Information on the applications of the embedded/real-time systems are woven into almost every aspect discussed which of course is inevitable.

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VLSI Design Black Book | e

Prasad

Description

• VLSI Design Technologies • CMOS VLSI Design • Building Blocks of a VLSI Circuit • VLSI Design Issues • EDA Tools: An Overview • HDL Simulation and Synthesis • IC Design • FPGA Design Process • VHDL Implementation Examples • Case Study: Xilinx Development Board • Case Study: Implementation of a Communication System • Case Study: System-On-Chip Development • Future Trends

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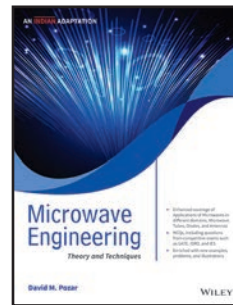
Satellite Communications, 3ed, An Indian Adaptation | IM | BS | e | k

Pratt

Description

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.

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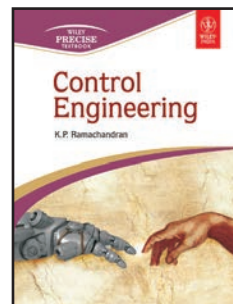
Microwave Engineering: Theory and Techniques, 4ed, An Indian Adaptation | IM | BS | e | k

Pozar

Description

• 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

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Control Engineering | e | k

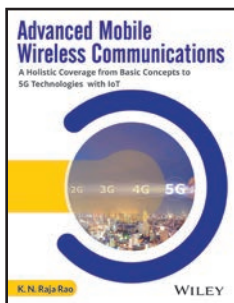
Ramachandran

Description

• Introduction to Control Systems • Mathematical Models • Block Diagrams and Signal Flow Graphs • Transient and Steady-State Response Analysis • Frequency Response Analysis using Nyquist Diagrams • Frequency Response Analysis using Bode Diagrams • Root Locus Plots • Control Action and System Compensation • Controllers • State Variable Models

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

Rao

Description

• 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

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The 8051 and MSP430 Microcontrollers: Architecture, Programming and Applications | IM | e | k

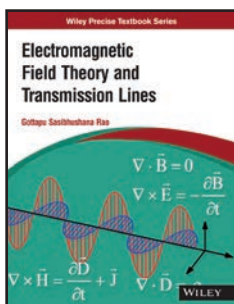
Rao

Description

• Computers, Microprocessors and Microcontrollers – An Introduction • Data Representation • 8051 Architecture • Assembly Language Programming I: Addressing Modes and Data Transfer • Assembly Language Programming II: Arithmetic and Logic Operators • Assembly Language

III: Jump and Call Instructions • Programming 8051 with C • Timers / Counters and Serial Port in 8051 • Interrupts • Interfacing the 8051 • Simulation of 8051 Using Keil Software (Lab Manual) • MSP Microcontroller: Introduction and Key Features • On-Chip Peripherals, Interfacing and Applications of MSP430 • Programming the MSP430 • Application Development Using 8051

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Electromagnetic Field Theory and Transmission Lines | e | k

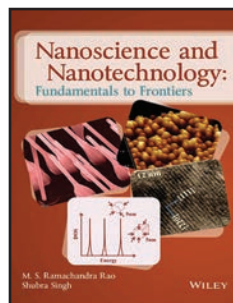
Rao

Description

• Review of Coordinate Systems and Vector Analysis • Electrostatics • Magnetostatics • Maxwell's Equations • Electromagnetic Wave Characteristics I • Electromagnetic Wave Characteristics II • Guided Waves • Transmission Lines I • Transmission Lines II • Waveguides

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Nanoscience and Nanotechnology: Fundamentals of Frontiers | e | k

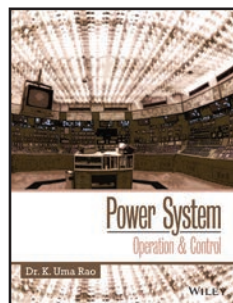
Rao

Description

• The Science behind Nanotechnology • Concepts of Solid-State Physics Relevant to Low-Dimensional Systems • Quantum Mechanics of Low-Dimensional Systems and Its Application to Nanoscience • Basic Aspects of Synthesis of Nanomaterial and Device

Fabrication • Different Types of Nanostructures • Diffusion Kinetics • Nanostructured Thin Films and Nano composites • Nano scale Characterization Techniques • Recent Advances in Nanotechnology • New Trends in Nanoscience and Applications of Nanotechnology in Various Fields

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Power System: Operation & Control | e | k

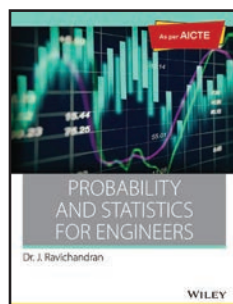
Rao

Description

• 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

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Probability and Statistics for Engineers: As per AICTE | IM | e

Ravichandran

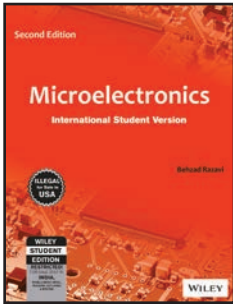
Description

• Probability Concepts • Random Variables and Distribution Functions • Expectation and Moment-Generating Function • Standard Discrete Distribution Functions • Some Standard Continuous Distribution Functions • Chebyshev's Inequality and Central Limit

Theorem • Two-Dimensional Random Variables • Transformation of Random Variables • Point Estimation and Minimum Risk Estimator • Sampling Distributions and Interval Estimation • Testing of Hypotheses • Simple Correlation and Regression • Analysis of Variance: One-Way and Two-Way Analyses • Latin Square Design and Two-Factor Factorial Design • Statistical Quality Control and Six Sigma Metrics

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Microelectronics, 2ed, ISV | IM | BS

Razavi

Description

By helping students develop an intuitive understanding of the subject, Microelectronics teaches them to think like engineers. The second edition of Razavi's Microelectronics retains its hallmark emphasis on analysis by inspection and building students' design intuition



Principles of Electric Machines, 3ed, An Indian Adaptation | IM | e | k

Sen

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Principles of Electrical Machines provides a comprehensive discourse on the characteristics and working principles of various types of electrical machines.

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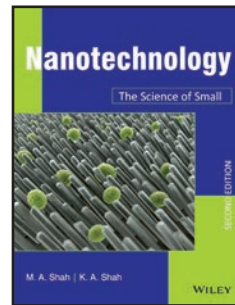


Microelectronics, 3ed, An Indian Adaptation | IM | e | k

Razavi

Description

• 1 INTRODUCTION TO MICROELECTRONICS • 2 BASIC PHYSICS OF SEMICONDUCTORS • 3 DIODE MODELS AND CIRCUITS • 4 PHYSICS OF BIPOLAR TRANSISTORS • 5 BIPOLAR AMPLIFIERS • 6 PHYSICS OF MOS TRANSISTORS • 7 CMOS AMPLIFIERS • 8 CASCADE STAGES AND CURRENT MIRRORS • 9 OPERATIONAL AMPLIFIER CIRCUITS AND APPLICATIONS • 10 DIFFERENTIAL AND MULTISTAGE AMPLIFIERS • 11 FREQUENCY RESPONSE • 12 FEEDBACK • 13 OSCILLATORS • 14 OUTPUT STAGES AND POWER AMPLIFIERS • 15 ANALOG FILTERS • 16 CMOS AMPLIFIER DESIGN • Appendix A INTRODUCTION TO SPICE



Nanotechnology: The Science of Small, 2ed | e | k

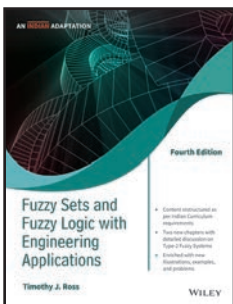
Shah

Description

• Overview of Carbon Materials • Fundamentals of Nanoscience • Techniques for Synthesis of Nanomaterials • Nanomaterials Characterization Techniques • Prime Materials in Nanotechnology • Nanotechnology Applications and Recent Breakthroughs • Nanotechnology Initiatives and Future Prospectives

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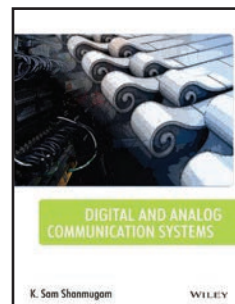


Fuzzy Sets and Fuzzy Logic with Engineering Applications, 4ed, An Indian Adaptation | IM | BS | e | k

Ross

Description

This Indian adaptation features new illustrations and examples throughout the book. This will benefit student learning in all basic operations



Digital and Analog Communication Systems | k

Shanmugam

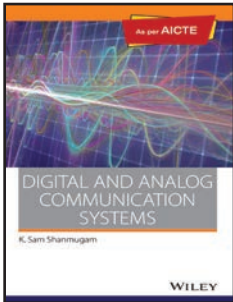
Description

• 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

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Digital and Analog Communication Systems Books: As per AICTE | BS

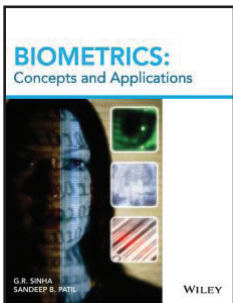
Shanmugam

Description

• 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

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Biometrics: Concepts and Applications, w/cd | e | k

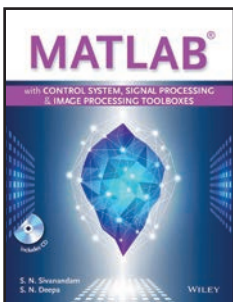
Sinha

Description

• Handwritten Character Recognition • Face Biometrics • Retina and Iris Biometrics • Vein and Fingerprint Biometrics • Biometric Hand Gesture Recognition for Indian Sign Language • Privacy Enhancement Using Biometrics • Biometric Cryptography and Multimodal

Biometrics • Biometrics: Scope and Future • Image Enhancement Techniques • Biometric Standards

9788126538652 | ₹ 739



MATLAB with Control System, Signal Processing and Image Processing Toolboxes, w/cd | e | k

Sivanandam

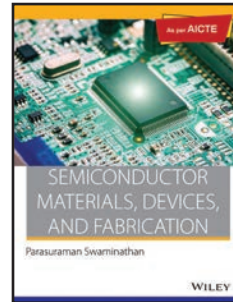
Description

• Programming in MATLAB • Mathematics in MATLAB: Working with Differential Equations and Polynomials • MATLAB Graphical Environment • MATLAB Control Systems Toolbox • Signal Processing Toolbox in MATLAB • Image Processing Toolbox in MATLAB • Simulink

Environments in MATLAB: An Introduction

9788126554751 | ₹ 829

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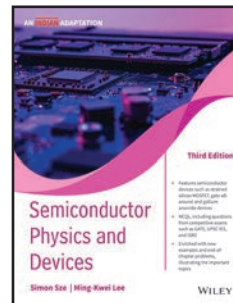
Semiconductor Materials, Devices and Fabrication: As per AICTE, w/cd

Swaminathan

Description

• Semiconductor Materials • Devices • Fabrication

9788126508624 | ₹ 619



Semiconductor Physics and Devices, 3ed, An Indian Adaptation | IM | BS | e | k

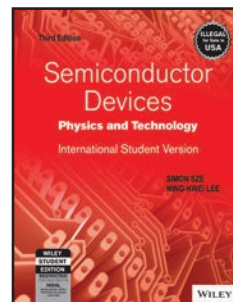
Sze

Description

• 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

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Semiconductor Devices, Physics and Technology, 8ed, ISV | IM

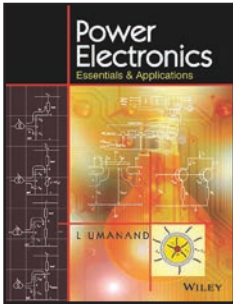
Sze

Description

• Semiconductor Physics • Semiconductor Devices • Semiconductor Technology

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Power Electronics: Essentials & Applications, w/cd | IM | BS | e | k

Umanand

Description

• 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 | ₹ 999



Medical Instrumentation 5ed: Application and Design, An Indian Adaptation | IM | BS | e | k

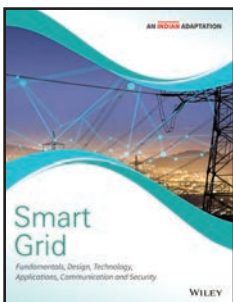
Webster

Description

• Basic Concepts of Medical Instrumentation • Amplifiers and Signal Processing • Basic Sensors and Principles • The Origin Of Biopotentials • Biopotential Electrodes • Biopotential Amplifiers • Chemical Biosensors • Blood Pressure and Sound • Measurement of Flow and Volume

Of Blood • Measurements Of The Respiratory System • Clinical Laboratory Instrumentation • Medical Imaging Systems • Therapeutic And Prosthetic Devices • Electrical Safety

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

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Description

• 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

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ISBN	AUTHOR	TITLE	PRICE	QTY.
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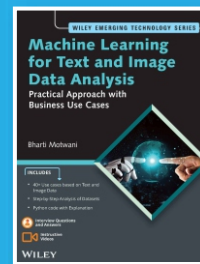
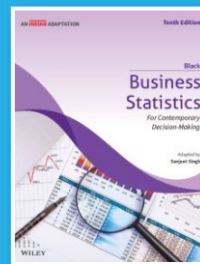
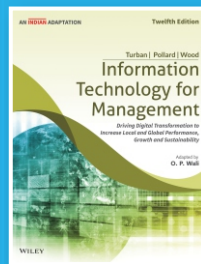
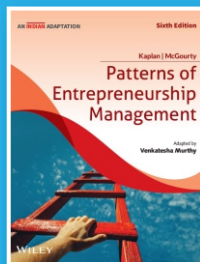
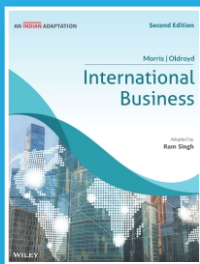
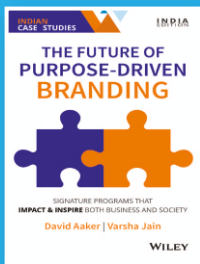
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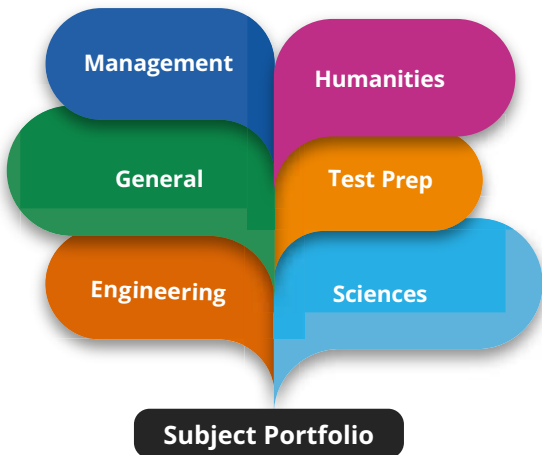
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