## WILEY



# Electrical, Electronics & Instrumentation Engineering

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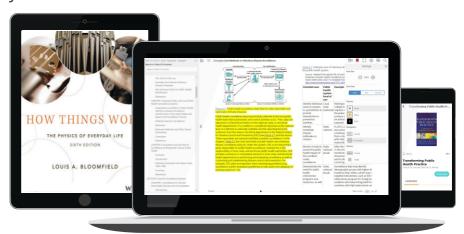
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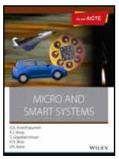


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#### **ELECTRICAL, ELECTRONICS & INSTRUMENTATION ENGINEERING**



### Mirco 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

## SPEECH AND ALIDIO PROCESSING

#### Synthesis

## 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

#### 9788126520701 | ₹889



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

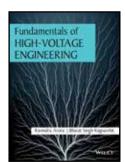
#### Apte

#### 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

#### 9788126540389 | ₹809



estimation.

#### 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

#### 9788126508839 | ₹779



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

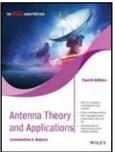
#### Apte

#### 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

#### 9788126579747 | ₹ 589



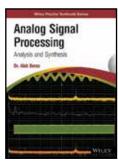
#### Antenna Theory and Applications, 4ed, An Indian Adaptation | IM | BS | e | k

#### 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.



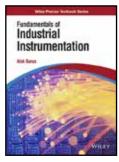
### Analog Signal Processing: Analysis and Synthesis, w/cd | e | k

#### Barua

#### Description

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

#### 9788126541980 | ₹ 769



## Fundamentals of Industrial Instrumentation | e | k

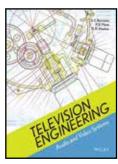
#### Barua

#### Description

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

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

#### 9788126528820 | ₹789



## 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

## ANALOG INTEGRATED CIRCUIT DESIGN

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

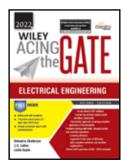
#### Carusone

#### 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 | ₹ 939



## 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.

#### 9789354249273 | ₹999



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

#### Chatterjee

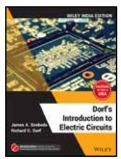
#### Description

• 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

9788126571857 | ₹ 599

9788126556366 | ₹ 579

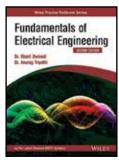


### Dorf's Introduction to Electric Circuits, Wiley India Edition | e

#### Dorf

#### Description

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.



Engineering

## 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

#### 9788126573493 | ₹ 969



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

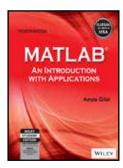
#### Duda

#### 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

#### 9788126542710 | ₹ 679



## MATLAB: An Introduction with Applications, 4ed | BS | e

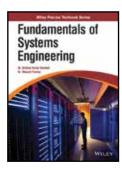
#### Gilat

#### Description

•Starting With MATLAB.•Creating Arrays.•Mathematical Operations With Arrays.•Using Script Files And Managing Data.•Two-Dimensional Plots.•Programming In MATLAB.•User-Defined Functions And Function Files.•Polynomials, Curve Fitting, And

Interpolation.•Applications In Numerical Analysis.•Three-Dimensional Plots.•Symbolic Math.

#### 9789354244391 | ₹699



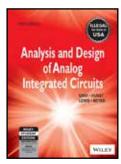
#### Fundamentals of Systems Engineering | e | k

#### Dwivedi

#### Description

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

#### 9788126537204 | ₹659



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

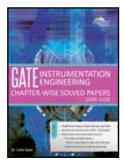
#### Gray

#### 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

#### 9788126521487 | ₹ 1029



#### 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 | New | IM | BS | e

#### Haykin

 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 | ₹ 909



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

#### Haykin

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



#### Introduction to Analog and Digital Communications, 2ed, An Indian Adaptation | New | IM | BS | e 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 | ₹ 959



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

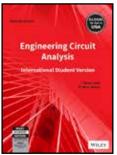
#### Haykin

#### 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

#### 9789354243158 | ₹ 939



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

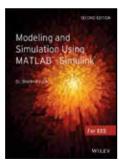
#### Irwin

#### 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

#### 9788126576258 | ₹ 1069



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

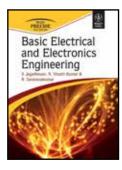
Jain

#### 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

#### 9788126551972 | ₹829



## Basic Electrical and Electronics Engineering | e

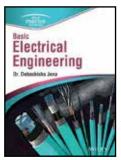
#### Jegathesan

#### 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.

9788126529513 | ₹ 699



#### 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

## Signals

Systems

#### Signals and Systems | e | k

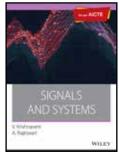
#### Krishnaveni

#### 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

#### 9788126522897 | ₹ 789



## 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

#### 9788126509829 | ₹819



#### **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



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

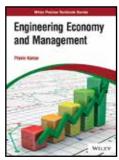
#### Kumar

#### 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

#### 9789354643194 | ₹739



## Engineering Economy and Management | e | k

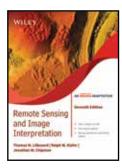
#### Kumar

#### 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

#### 9788126579921 | ₹759



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

#### 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

#### 9789354642104 | ₹ 1069



## Digital Electronics: Principles and Integrated Circuits | e | k

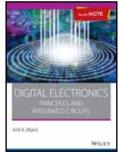
#### Maini

#### 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 | ₹729



## Digital Electronics: Principles and Integrated Circuits: As per AICTE l 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 | ₹759



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

#### Maini

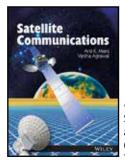
#### Description

Passive Electronic Components
 Electromechanical Components and Batteries
 Introduction to Semiconductor Physics
 Semiconductor Diodes
 Bipolar Junction Transistors
 Transistor Biasing and Thermal Stabilization
 Field Effect Transistors

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 | ₹ 919

6



#### 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

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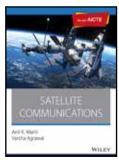
## Wiley Acing the GATE: Electronics and Communication Engineering, 2ed, 2023 | New

#### Maini

#### Description

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

#### 9788126520718 | ₹ 789



## Satellite Communications: As per AICTE | e

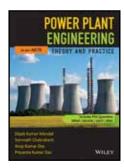
#### Maini

#### 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

#### 9789354644900 | ₹ 1019



## Power Plant Engineering: Theory and Practice | e | k

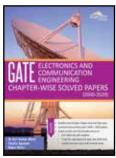
#### Mandal

#### 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

#### 9788126520732 | ₹829

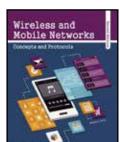


#### Wiley's GATE Electronics and Communication Engineering Chapter-wise Solved Papers (2000-2020) | e | k

#### 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 9788126579754 | ₹ 759



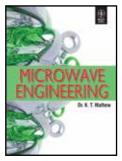
#### Wireless and Mobile Networks, Concepts and Protocols, 2ed | IM | e | k

#### 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



#### Microwave Engineering | e | k

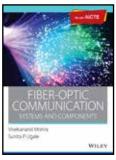
#### Mathew

#### 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

#### 9788126520114 | ₹839



## FiberOptic 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 Receivers
 Optical Transmission System:
 Concepts and Components
 Optical Amplifiers

Instrumentation for Optical Measurements • Optical Sensors

#### 9788126510740 | ₹729



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

#### Mohan

#### Description

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



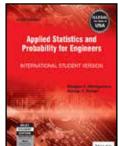
## Wireless Communications, 2ed, An Indian Adaptation | IM | e

#### Molisch

#### Description

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

#### 9789354248795 | ₹ 939



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

#### 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

#### 9788126562947 | ₹ 949



#### Digital Control, w/cd

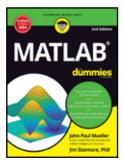
#### Moudgalya

#### Description

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

9789354640278 | ₹ 999

8



#### MATLAB for Dummies, 2ed | New

#### 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

## Introduction to Nanoscience and Nanotechnology Charlet P. Paul, J. (Paul A. Grann) WILLY

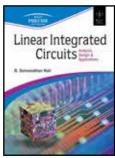
#### Introduction to Nanoscience and Nanotechnology, An Indian Adaptation | e | k

#### 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.

#### 9789357460354 | ₹899



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

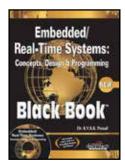
#### Nair

#### Description

Direct-Coupled and Differential Ampli?ers
 Operational Ampli?ers
 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

#### 9789354240201 | ₹889



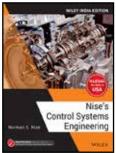
#### Embedded / Real-Time Systems: Concepts, Design and Programming Black Book, New ed | k

#### 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.

#### 9788126518968 | ₹759



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

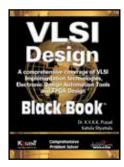
#### Nise

#### 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

#### 9788177224610 | ₹ 749



#### VLSI Design Black Book | e | k

#### Prasad

#### Description

Development Board• Case Study: Implementation of a Communication System• Case Study: System-On-Chip Development• Future Trends



#### 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

#### 9789354243035 | ₹889



#### 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

#### 9789388991087 | ₹ 929



#### 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

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

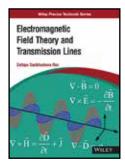
#### Rao

#### 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

#### 9788126577545 | ₹ 599



#### **Electromagnetic Field Theory and** Transmission Lines | e | k

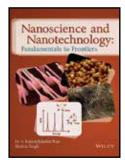
#### Rao

#### 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

#### 9788126536153 | ₹ 729



#### Nanoscience and Nanotechnology: Fundamentals of Frontiers | e | k

#### Rao

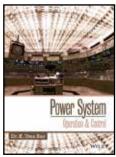
#### Description

•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

9788126542017 | ₹ 759

9788126522880 | ₹ 759



### Power System: Operation & Control | e | k

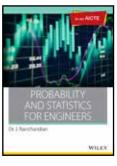
#### Rao

#### 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

#### 9788126534418 | ₹829



#### 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

#### 9788126512348 | ₹809



### 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

## Microelectronics Microelectronics

#### 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 CASCODE

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

#### 9789388991063 | ₹ 1039



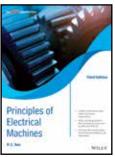
## Fuzzy Sets and Fuzzy Logic with Engineering Applications, 4ed, An Indian Adaptation | IM | BS | e | k

#### Ross

#### Description

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

#### 9788126502608 | ₹999



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

#### Sen

#### Description

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

9788126571352 | ₹ 1039



## 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

## BIOMETRICS: Concepts and Applications WILEY

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

#### Sinha

#### Description

- $\bullet$  Handwritten Character Recognition  $\bullet$  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

#### 9788126579976 | ₹ 619



#### Digital and Analog Communication Systems | k

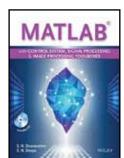
#### Shanmugam

#### 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

#### 9788126538652 | ₹ 689



#### 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

#### 9788126536801 | ₹779



#### 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

#### 9788126554751 | ₹779



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

#### Swaminathan

#### Description

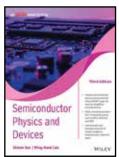
• Semiconductor Materials• Devices• Fabrication

9788126512331 | ₹819

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9788126508624 | ₹ 579

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



#### 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

#### 9789354243226 | ₹859



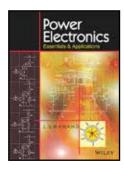
## Semiconductor Devices, Physics and Technology, 8ed, ISV | IM

#### Sze

#### Description

• Semiconductor Physics • Semiconductor Devices • Semiconductor Technology

#### 9788126556755 | ₹889



## 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
 Design of Magnetics
 Modeling of Systems
 Control System
 Essentials
 Optimal and Robust Controller

Design• Discrete Computation Essentials• Thermal Aspects• Reliability Modeling• Reliability Prediction

## Medical Instrumentation Application studies and application an

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

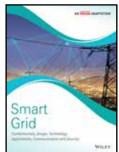
#### Webster

#### 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

#### 9789354249150 | ₹ 919



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

#### Wiley Editorial

#### 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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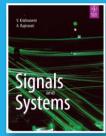












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