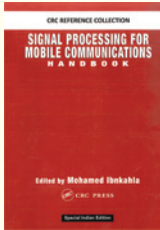


COMMUNICATION ENGINEERING & SIGNAL PROCESSING

Signal Processing for Mobile Communications Handbook

NEW



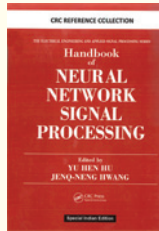
IBNKAHLA

Contents : Introduction 1. Channel Modeling and Estimation 2. Modulation Techniques for Wireless Communications 3. Multiple Access Techniques 4. Mimo systems 5. Equalization and Receiver Design 6. Voice Over IP 7. Power Control and Wireless Networking 8. Emerging techniques and applications

Rpt. 2013 872 pp 9780849316579 BSPCRC HB Rs. 3995.00

Handbook of Neural Network Signal Processing

NEW



HU

Contents: Part I - Neural Network Fundamentals 1. Introduction to Artificial Neural Network for Signal Processing 2. Multilayer Perceptrons 3. Radial Basis Networks 4. Support Vector Machine 5. Committee Machines Part II - Neural Network Solutions To Statistical Signal Processing Problems 6. Applications of ANN to Nonlinear Signal Processing 7. Applications of ANN to Blind Deconvolution and Source Separation 8. Adaptive Principle Component Analysis 9. Applications of ANN to System Identification 10. Applications of ANN to Time Series Prediction **Part III - Signal Processing Applications Using Neural Networks** 11. Applications of ANN to Speech Processing 12. Applications of ANN to Video Signal Processing 13. Applications of ANN to Biomedical Signal Processing 14. Hierarchical Fuzzy Neural Networks for Pattern Classification and Shang Hung Lin

Rpt.2013 408 pp 9780849323591 BSPCRC HB Rs. 2200.00

Digital Color Imaging Handbook

NEW



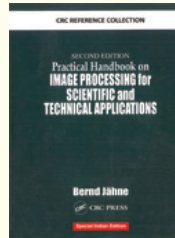
Gaurav Sharma, Raja Bala

Contents:1.Color Fundamentals for Digital Imaging, 2. Visual Psychophysics and Color Appearance 3. Physical Models for Color Prediction, 4. Color Management for Digital Imaging Systems, 5. Device Characterization, 6. Digital Color Halftones, 7. Human Visual Model Based Color Halftoning, 8. Compression of Color Images, 9. Color Quantization, 10. Gamut Mapping, Ján Morović, University of Derby, 11. Efficient Color Transformation Implementation, 12. Color Image Processing for Digital Cameras,

Rpt.2013 814 pp 978-0849309007 BSPCRC HB Rs. 3995.00

Practical Hand Book on Image Processing for Scientific and Technical Applications, 2nd Ed.

NEW

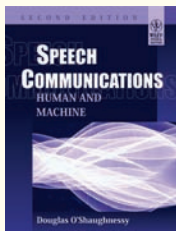


Bernd Jahne

Contents: 1. Introduction 2. Tasks And Tools, I. From Objects to Images, 3. Quantitative Visualization, 4. Image Formation, 5. Imaging Sensors, 6. Digitalization and Quantization, II Handling and Enhancing Images 7. Pixels, 8. Geometry, 9. Restoration and Reconstruction, III From Images to Features, 10. Neighborhoods, 11. Regions, 12. Edges and Lines, 13. Orientation and Velocity, 14. Scale and Texture, IV From Features to Objects, 15. Segmentation, 16. Size And Shape, 17. Classification

Rpt. 2013 585 pp 9780849319006 BSPCRC HB Rs. 3500.00

Speech Communications: Human and Machine, 2nd Ed.



Douglas O'shaughnessy

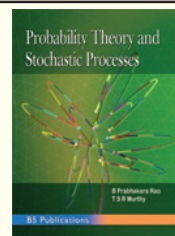
Contents: 1. Introduction 2. Review of Mathematics for Speech Processing 3. Speech Production and Acoustic Phonetics 4. Hearing 5. Speech Perception 6. Speech Analysis 7. Coding of Speech Signals 8. Speech Enhancement 9. Speech Synthesis 10. Automatic Speech Recognition 11. Speaker Recognition

Rpt.2012 9788126536108 547 pp BSPJ/W PB * Rs. 895.00

Probability Theory and Stochastic Processes

B. Prabhakara Rao and T S R Murthy

Contents: 1. Probability 2. Random Variable 3. Operations on One Random Variable-Expectations 4. Multiple Random Variables 5. Operations on Multiple Random Variables 6. Random Processes 7. Random Process-Spectral Characteristics 8. Linear Systems with Random Inputs, Statistical tables & Bibliography



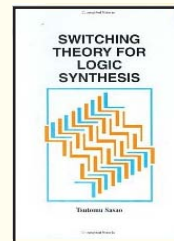
2012 9789381075982 575 pp BSPBSP PB Rs. 325.00

COMMUNICATION ENGINEERING & SIGNAL PROCESSING

Switching Theory for Logic Synthesis

Tsutomu Sasao

Contents: 1. Mathematical Foundation. 2. Lattice and Boolean Algebra. 3. Logic Functions and their Representations 4. Optimization of and-or Two-level Logic Networks. 5. Logic Functions with Various Properties. 6. Sequential Networks. 7. Optimization of Sequential Networks. 8. Delay and Asynchronous Behavior. 9. Multi-valued Input Two-valued Output Function. 10. Heuristic Optimization of Two-level Networks. 11. Multi-level Logic Synthesis. 12. Logic Design Using Modules. 13. Logic Design Using EXORs. 14. Complexity of Logic Networks

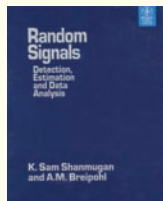


Rpt. 2011 379 pp 978-81-84898-02-6 BSPSPR * Rs. 695.00

Random Signals: Detection, Estimation and Data Analysis

K. Sam Shanmugan and Arthur M. Breipohl

Contents: 1. Introduction 2. Review of Probability and Random Variables 3. Random Processes and sequences 4. Response of Linear Systems to Random Inputs 5. Special Classes of Random Processes 6. Signal Detection 7. Linear Minimum Mean-Square Error Filtering 8. Statistics 9. Estimating the Parameters of Random Processes from Data



Rpt. 2011 664 pp 978-81-265-2879-0 BSPJ/W * Rs. 1150.00

Global Navigation Satellite Systems: Insights into GPS, GLONASS, Galileo, Compass, and others

B. Bhatta

Contents: 1. Overview of GNSS 2. Functional Segments of GNSS 3. Working Principle of GNSS 4. GNSS Signals and Range Determination 5. Errors and Accuracy Issues 6. Positioning Methods 7. GNSS Augmentations and Other Navigation Satellite Systems 8. GNSS Receivers 9. Geodesy 10. Applications of GNSS 11. Surveying with GNSS

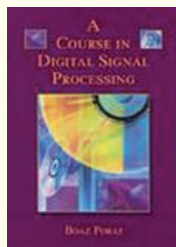


2010 438 pp 978-81-7800-220-0 BSPBSP HB Rs. 895.00

A Course in Digital Signal Processing

Boaz Porat

Contents: 1. Introduction, 2. Review of frequency –Domain Analysis, 3. Sampling and Reconstruction, 4. The Discrete Fourier Transform, 5. The Fast Fourier Transform, 6. Practical Spectral Analysis, 7. Review of z-Transforms and Difference Equations, 8. Introduction to Digital Filters, 9. Finite Impulse Response Filters, 10. Infinite Impulse Response Filters, 11. Digital Filters Realization and Implementation, 12. Multirate Signal Processing, 13. Analysis and Modeling of Random Signals, 14. Digital Signal Processing Applications.

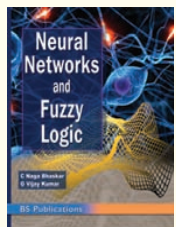


Rpt. 2012 9788126534913 602 pp BSPJW PB * Rs. 1150.00

Neural Networks and Fuzzy Logic

C. Naga Bhaskar and G Vijay Kumar

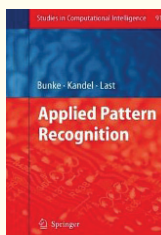
Contents: 1. Overview of Neural Networks 2. Fundamentals of Neural Networks 3. Feedforward Neural Networks 4. Neural Networks Architectures 5. Associative Memories 6. Introduction to Fuzzy Sets: Basic Definitions and Relations 7. Introduction to Fuzzy Logic 8. Fuzzy Control and Stability 8A. Advanced Process Control 8B. Fuzzy Logic Application



2011 BSPBSP 300 pp PB 978-93-81075-40-1 Rs. 250.00

Applied Pattern Recognition

Bunke



Contents: 1. Skin-based Face Detection-Extraction and Recognition of Facial Expressions 2. Facial Image Processing 3. Face Recognition and Pose Estimation with Parametric Linear Subspaces 4. 4D Segmentation of Cardiac Data Using Active Surfaces with Spatiotemporal Shape Priors 5. Measuring Similarity Between Trajectories of Mobile Objects 6. Feature-Driven Emergence of Model Graphs for Object Recognition and Categorization 7. Texture Analysis by Accurate Identification of a Generic Markov-Gibbs Model

Rpt. 2011 978-81-848987-29 246 pp BSPSPR * Rs. 875.00

DSP Processor Fundamentals Architectures & Features

Phil Lapsley et. al.

Contents: 1. Digital Signal Processing and DSP System 2. DSP Processors, Embodiments, and Alternatives 3. Numeric Representations and Arithmetic 4. Data Path 5. Memory Architecture 6. Addressing 7. Instruction set 8. Execution control 9. Pipelining 10. Peripherals 11. On-Chip Debugging Facilities 12. Power Consumption and Management 13. Clocking 14. Price and Packaging 15. Fabrication Details 16. Development Tools 17. Applications Support 18. Conclusions

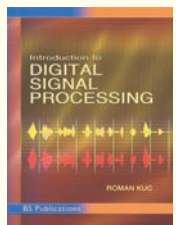


2010 210 pp 978-81-265-2354-2 BSPJ/W * Rs. 695.00

Introduction to Digital Signal Processing

Roman Kuc

Contents: 1. Introduction 2. Discrete-time Description of Signals and Systems 3. Fourier Transform of Discrete time Signals 4. The Discrete Fourier Transform 5. The z-transform 6. Digital Filter Structures 7. From Analysis to Synthesis 8. Infinite Impulse Response Filter Design Techniques 9. Finite Impulse Response Filter Design Techniques 10. Finite-precision Effects 11. Inverse Filtering.



Rpt. 2006 474 pp 81-7800-123-3 BSPBSP PB Rs. 395.00

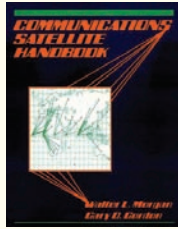
Visit: www.bspbooks.net / www.bspublications.net for latest updates

COMMUNICATION ENGINEERING & SIGNAL PROCESSING

Communications Satellite Handbook

Walter L. Morgan, Gary D. Gordon

Contents: 1. Obtaining Access to the Satellite 2. TELETRAFFIC 3. Interfaces Between Terrestrial and Satellite Systems 4. Telecommunications Systems 5. COMMUNICATIONS SATELLITE SYSTEMS 6. System Modeling 7. Overall System Calculations 8. MULTIPLE-ACCESS TECHNIQUES 9. Frequency Domain Multiple Access 10. Time Domain Multiple Access 11. Space Domain Multiple Access 12. Code Domain Multiple Access 13. Random Multiple Access 14. SPACECRAFT TECHNOLOGY 15. Space Configuration and Subsystems 16. Telemetry, Tracking, and Command 17. Solar Arrays 18. Attitude Control 19. Thermal Control 20. SATELLITE ORBITS 21. Direction of Orbit Normals and of Sun 22. Elliptical Orbits in a Plane 23. Earth Station—Azimuth, Elevation, and Range 24. Lunar and Solar Perturbations 25. Launching into a Geostationary Orbit.

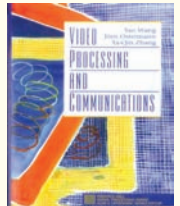


Rpt. 2010 900 pp 978-81-2652-578-2 BSPJ/W Rs. 1995.00

Video Processing and Communications

Yao Wang, Jorn Ostermann and Ya-Qin Zhang

Contents: 1. Video Formation perception and Representation 2. Fourier Analysis of Video Signals and Frequency Response of the Human Visual System 3. Video Sampling 4. Video Sampling Rate Conversion 5. Video Modeling 6. Two-Dimensional Motion Estimation 7. Three-Dimensional Motion Estimation 8. Foundations of Video Coding 9. Waveform-Based Video Coding 10. Content-Dependent Video Coding 11. Scalable Video Coding 12. Stereo and Multiview Sequence Processing 13. Video Compression Standards 14. Error Control in Video Communications 15. Streaming Video Over the Internet and Wireless IP Networks

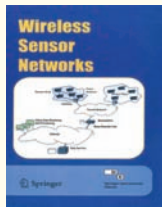


Rpt. 2010 595 pp 978-81-317-3364-6 BSPPEA * Rs. 1195.00

Wireless Sensor Networks

C.S Raghavendra Krishna and M. Sivalingam Taieb Znati

Contents: Part I - Basics 1. Sensor Networks: A Bridge to the Physical World 2. Communication Protocols for Sensor networks 3. Energy Efficient Design of Wireless Sensor Nodes Part II 4. Medium Access Control in Wireless Sensor Networks 5. A Survey of MAC Protocols for Sensor Networks 6. Dissemination Protocols for Large Sensor Networks 7. Routing on a Curve 8. Reliable Transport for Sensor Networks Part III 9. Data-centric Routing and Storage in Sensor Networks 10. Compression Techniques for Wireless Sensor Networks 11. Fundamental Limits of Networked Sensing Part IV - Security 12. Security for Wireless Sensor Networks 13. Key Distribution Techniques for Sensor Networks 14. Security in Sensor Networks: Watermarking Techniques Part V: Localization and Management 15. Localization in Sensor Networks 16. Sensor Management Part VI Applications 17. Detecting Unauthorized Activities using a Sensor Network 18. Analysis of Wireless Networks for Habitat Monitoring

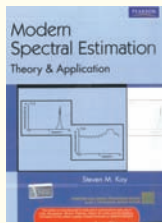


Rpt. 2010 423 pp 978-81-84897-10-4 BSPSPR * Rs. 850.00

Modern Spectral Estimation: Theory and Application

Steven M. Kay

Contents: Part I Basic Methods 1. Introduction 2. Review of Linear and Matrix Algebra 3. Review of Probability, Statistics, and Random Processes 4. Classical Spectral Estimation 5. Parametric Modeling 6. Autoregressive Spectral Estimation: General 7. Autoregressive Spectral Estimation: Methods 8. Moving Average Spectral Estimation 9. Autoregressive Moving Average Spectral Estimation: General 10. Autoregressive Moving Average Spectral Estimation: Methods 11. Minimum Variance Spectral Estimation 12. Summary of Spectral Estimators Part II Advanced Concepts 13. Sinusoidal Parameter Estimation 14. Multichannel Spectral Estimation 15. Two-Dimensional Spectral Estimation 16. Other Applications of Spectral Estimation Methods

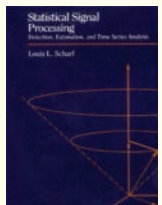


Rpt. 2010 539 pp 978-81-317-3356-1 BSPPEA * Rs. 1095.00

Statistical Signal Processing

Louis Scharf

Contents: 1. Introduction 2. Rudiments of Linear Algebra and Multivariate Normal Theory 3. Sufficiency and MVUB Estimators 4. Neyman-Pearson Detectors 5. Bayes Detectors 6. Maximum Likelihood Estimators 7. Bayes Estimators 8. Minimum Mean-Squared Error Estimators 9. Least Squares 10. Linear Prediction 11. Modal Analysis

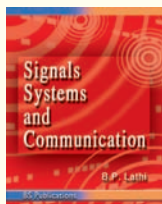


Rpt. 2010 524 pp 978-81-317-3361-5 BSPPEA * Rs. 1050.00

Signals Systems and Communication

B. P. Lathi

2009 607 pp 8178000169
BSPBSP *Rs. 425.00



Digital Video Processing

Murat Tekalp A.

Contents: Part I Representation of Digital Video 1. Basics of Video 2. Time-Varying Image Formation Models 3. Spatio – Temporal Sampling 4. Sampling Structure Conversion Part II Two-Dimensional Motion Estimation 5. Optical Flow Methods 6. Block-Based Methods 7. Pel-Recursive Methods 8. Bayesian Methods Part III Three-Dimensional Motion Estimation and Segmentation 9. Methods using point Correspondences 10. Optical Flow and Direct Methods 11. Motion Segmentation 12. Stereo and Motion Tracking Part IV. Video Filtering 13. Motion Compensated Filtering 14. Noise Filtering 15. Restoration 16. Standards Conversion 17. Superresolution Part V Still Image Compression 18. Lossless Compression 19. DPCM and Transform coding 20. Still Image Compression Standards 21. Vector Quantization, Subband Coding and Other Methods Part VI Video Compression 22. Interframe Compression Methods 23. Video Compression Standards 24. Model-Based Coding 25. Digital Video Systems

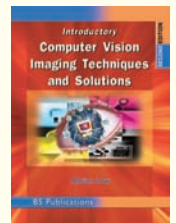


Rpt. 2010 526 PP 978-81-317-3372-1 BSPPEA * Rs. 1050.00

Introductory Computer Vision, Imaging Techniques and Solutions, 2nd Ed.

Adrian Low

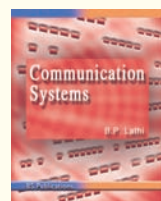
2008 299 pp 978-81-7800-197-7 BSPBSP Rs. 250.00



Communication Systems

B. P. Lathi

2009 431 pp 978-81-7800-015-2
BSPBSP *Rs. 250.00



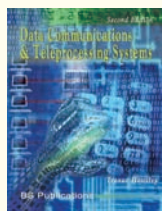
COMMUNICATION ENGINEERING & SIGNAL PROCESSING



Understanding Data Communications and Networks, 3rd Ed.

William A. Shay

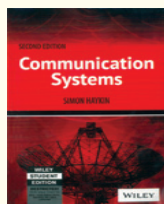
Rpt. 2008 766 pp 978-81-7800-179-1
BSPBSP * Rs. 495.00



Data Communications & Teleprocessing Systems, 2nd Ed

Trevor Housley

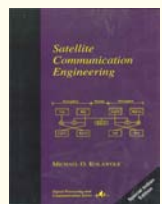
2005 475 pp 81-7800-075-6
BSPBSP Rs. 300.00



Communication Systems, 2nd Ed.

Simon Haykin

Rpt. 2007 653 pp 978-81-265-1326-0
BSPJ/W * Rs. 550.00



Satellite Communication Engineering

Michael O. Kolawole

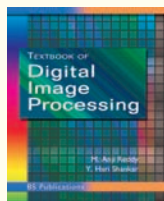
Rpt. 2002 263 pp 978-0-8247-0777-4
BSPMDI * Rs. 495.00



Control Systems, 2nd Ed.

N. C. Jagan

2007 485 pp
81-7800-139-X Rs. 225.00
BSPBSP



Textbook of Digital Image Processing

M. Anji Reddy and Y. Hari Shankar

2006 292 pp 978-81-7800-122-7
BSPBSP * Rs. 325.00

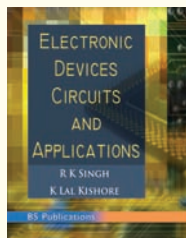


Satellite Communication Systems: Design Principles

M. Richharia

1999 484 pp 978-033398-776-6
BSPMAC * Rs. 650.00

ELECTRONICS — BASICS



Electronic Devices Circuits and Applications

R.K.Singh and K. Lal Kishore

Content: 1. Semiconductor and Magnetic Material, 2. Electron Dynamics and CRO, 3. Junction Diode Characteristics, 4. Rectifiers, Filters and Regulators 5. Transistor Characteristics, 6. Transistor Biasing and Stabilization, 7. Amplifiers, 8. Frequency Response, 9. Feedback Amplifiers, 10. Multistage Amplifier and Tuned Amplifier, 11. Large Signal (Power) Amplifiers, 12. Oscillators, 13. Operational Amplifier, 14. Multivibrators

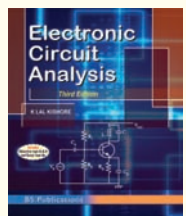
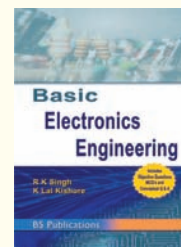
2011 743 pp 978-93-81075-45-6 BSPBSP PB Rs. 375.00

Basic Electronics Engineering

R.K.Singh and K. Lal Kishore

Content: 1. Junction Diode Characteristics, 2. Rectifiers, Filters and Regulators, 3. Transistor Characteristics, 4. Transistor Biasing and Stabilization, 5. Field Effect Transistors (FETs), 6. Amplifiers, 7. Number Systems and Gate Logic, 8. Oscillators, 9. Feedback Amplifiers 10. Operational Amplifiers

2011 543 pp 978-93-81075-21-0 BSPBSP PB Rs. 295.00



Electronic Circuit Analysis, 3rd Ed.

K. Lal Kishore

Contents : 1. Single Stage Amplifiers 2. Multistage Amplifiers 3. BJT - Amplifiers, Frequency Response 4. MOS Amplifiers 5. Feedback Amplifiers 6. Oscillators 7. Large Signal Amplifiers 8. Tuned Amplifiers

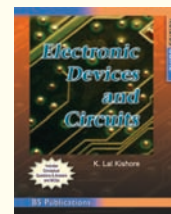
2011 427 pp 978-93-81075-13-5 BSPBSP PB Rs. 250.00

Electronic Devices and Circuits, 3rd Ed.

K. Lal Kishore

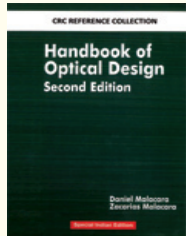
Contents: 1. Electron Dynamics and CRO 2. Junction Diode Characteristics 3. Rectifiers, Filters and Regulators 4. Transistor and FET Characteristic 5. Transistor Biasing and Stabilization 6. Amplifiers 7. Feedback Amplifiers 8. Oscillators

2008 510 pp 81-7800-191-8 BSPBSP PB Rs. 275.00



Visit: www.bspbooks.net / www.bspublications.net for latest updates

OPTICAL DESIGN / COMMUNICATION



Handbook of Optical Design, 2nd Ed.

Daniel Malacara and Zacarías Malacara



Contents: 1. Geometrical Optics Principles, 2. Thin Lenses and Spherical Mirrors, 3. Systems of Several Lenses and Thick Lenses, 4. Spherical Aberration, 5. Monochromatic Off-Axis Aberration, 6. Chromatic Aberrations, 7. The Aberration Polynomial, 8. Diffraction in Optical Systems, 9. Computer Evaluation of Optical Systems, 10. Prisms, 11. Simple Optical Systems and Photographic Lenses, 12. Complex Photographic Lenses, 13. The Human Eye and Ophthalmic Lenses, 14. Astronomical Telescopes, 15. Visual Systems, Visual Telescopes, and Afocal systems, 16. Microscopes, 17. Projection Systems, 18. Lens Design Optimization

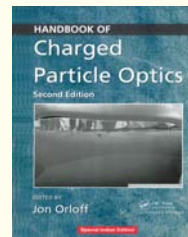
Rpt.2013 533 pp 9780824746131 BSPT&F HB Rs. 3500.00

Handbook of Charged Particle Optics, 2nd Ed.

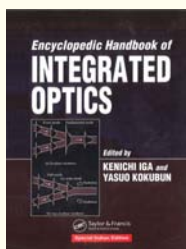
Jon Orloff



Contents: 1. Review of ZrO/W Schottky Cathode, 2. Liquid Metal Ion Sources, 3. Gas Field Ionization Sources, 4. Magnetic Lenses for Electron Microscopy, 5. Electrostatic Lenses, 6. Aberrations, 7. Space Charge and Statistical Coulomb Effects, 8. Resolution, 9. Scanning Electron Microscope, 10. Scanning Transmission Electron Microscope, 11. Focused Ion Beams, 12. Aberration Correction in Electron Microscopy, 13. Appendix: Computational Resources for Electron Microscopy



Rpt.2014 665 pp 9781420045543 BSPT&F HB Rs. 6000.00



Encyclopedic Handbook of Integrated Optics

Kenichi Iga and Yasuo Kokubun



Contents: Acousto-Optics Devices, Add/Drop Filter, Arrayed Waveguide Grating, Athermal Component, Attenuator, Directional Coupler, Dispersion and Its Control, Distributed Bragg Reflector (DBR) Laser, Distributed Feedback (DFB) Laser, Erbium Doped Fiber Amplifier (EDFA), Fiber Bragg Grating, Four Wave Mixing, Frequency Chirping, Integrated Twin-Guide Laser, Isolator/Circulator, Lambda Plate, Light, Lithium Niobate (LN) Modulator, Micro Electro-Mechanical Systems (MEMS), Microlens, Micro-Ring Resonator Circuit, Mode Locking, Mode Scrambler, Modulation of Semiconductor Lasers, Multi-Mode Interference Devices, Nano-Photonics, Optical Coupling in Waveguides, Optical Coupling of Lasers and Fibers, Optical Disk Pickup, Optical Fiber, Optical Filter Synthesis, Optical Interconnects, Optical Loss, Optical Parallel Processor, Optical Parametric Amplifier (OPA), Optical Switch, Optical Tap, Optical Resonator, Optoelectronic Integrated Circuit (OEIC), Periodic Structure, Photonic Crystal, Planar Lightwave Circuit (PLC),

Polarization, Polarization Control, Quantum Well, Raman Amplifier, RF Spectrum Analyzer, Second Harmonic Generation (SHG), Semiconductor Optical Amplifier, Single Photon source, Stacked Planer Optics, Thermo-Optic Device, 3R (Retiming Reshaping Regeneration), Traveling-Wave Electro Absorption Modulator, Transmitter/Receiver, Tunable Semiconductor Laser, Vertical Cavity Surface Emitting Laser (VCSEL), Waveguide Bends, Waveguide Modeling, Wavelength Conversion, Wavelength Multiplexer/Demultiplexer (MX/DMUX in WDM), Y-Branch

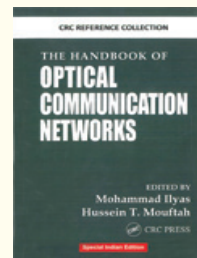
Rpt.2014 510 pp 9780824724252 BSPT&F HB Rs. 6000.00

The Handbook of Optical Communication Networks

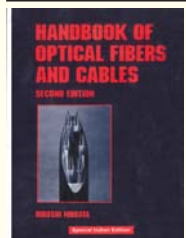
Mohammad Ilyas, Hussein T. Mouftah



Contents: INTRODUCTION AND OPTICAL NETWORK ARCHITECTURES 1. Overview of Optical Communication Networks: Current and Future Trends 2. Evolution of Optical Networks Architecture 3. Design Aspects of Optical Communications Networks 4. Evolution to an Optical Broadband Services Network PROTOCOLS FOR OPTICAL NETWORKS 5. Multiprotocol Label Switching 6. Dynamic Synchronous Transfer Mode 7. A Survey of Fair Bandwidth Allocation for Multicast Over the Internet RESOURCE MANAGEMENT IN OPTICAL NETWORKS 8. Emerging Optical network Management 9. Optical Network Resource Management and Allocation 10. Real-Time Provisioning of Optical Communication Networks ROUTING AND WAVELENGTH ASSIGNMENT IN WDM NETWORKS 11. Routing and Wavelength Assignment with Multi-Granularity Traffic in Optical Networks 12. Adaptive Routing and Wavelength Assignment in All-Optical Networks: The Role of Wavelength Conversion and Virtual Circuit Deflection CONNECTION MANAGEMENT IN OPTICAL NETWORKS 13. Connection Management in Wavelength Routed All Optical Networks 14. A Novel Distributed Protocol for Path Selection in Dynamic Wavelength-Routed WDM Networks 15. Distributed Light-Path Control for Wavelength-Routed WDM Networks SURVIVABILITY IN OPTICAL NETWORKS 16. Recent Advances in Dynamic Lightpath Restoration in WDM Mesh Networks 17. Restoration in Optical WDM Mesh Networks 18. Shared Alternate-Path Protection with Multiple Criteria in All-Optical Wavelength-Routed WDM Networks ENABLING TECHNOLOGIES FOR OPTICAL NETWORKS 19. Optical Transport Networks: A Physical Layer Perspective 20. Fiber Optic Sensors 21. Wavelength Converters



Rpt. 2013 488 pp 978-0-8493-1333-2 BSPCRC HB Rs. 3000.00



Handbook of Optical Fibers and Cables , 2nd Ed.

Hiroshi Murata



Contents: 1. Optical fibres, 2. Optical fibre cables, 3. Splicing of fibres, 4. Connectors, 5. Joining of optical fibre cables, 6. Measurement of optical fibres, 7. Installation of optical fibre cable, 8. Applications of optical fibre.

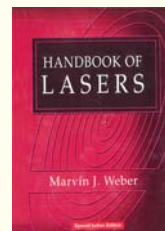
Rpt.2014 532 pp 9780824797195 HB BSPCRC Rs. 5000.00

Handbook of Lasers

Marvin J. Weber

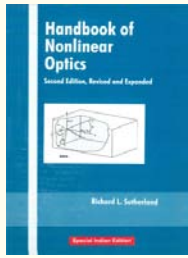


Contents: 1. Introduction 2. Liquid lasers 3. Gas lasers 4. Other lasers



Rpt. 2013 1,224 pp 978-0-8493-3509-9 BSPCRC HB Rs. 6000.00

OPTICAL DESIGN / COMMUNICATION



Handbook of Nonlinear Optics, 2nd Ed.



Richard L. Sutherland

Contents: 1. Elements of the Theory of Nonlinear Optics, 2. Frequency Doubling and Mixing, 3. Optical Parametric Generation, Amplification, and Oscillation, 4. Characterization of second Order Nonlinear Optical Materials, 5. Properties of Selected Second Order Nonlinear Optical Materials, 6. Nonlinear Index of Refraction, 7. Characterization of Nonlinear Refractive Index Materials, 8. Optical Properties of Selected Third order Nonlinear Optical Materials 9. Nonlinear Absorption, 10. Experimental Techniques in Nonlinear Absorption, 11. Ultrafast Characterization Techniques, 12. Laser Flash Photolysis, 13. Nonlinear Absorption Properties of Selected Materials 14. Stimulated Raman Scattering, 15. Stimulated Brillouin Scattering 16. Properties of Selected Stimulated Light-Scattering Materials, 17. Electro-Optic Effects

Rpt.2014 9780824742430 974 pp BSPT&F HB Rs. 7000.00

Handbook of Laser Technology and Applications, 3 Vol. set

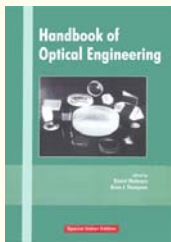


C.E. Webb, J.D.C. Jones

Contents: VOLUME 1: PRINCIPLES VOLUME 2: LASER DESIGN AND LASER SYSTEMS VOLUME 3: Applications.



Rpt. 2013 2,752 pp 978-0-7503-0607-2 BSPCRC HB Rs. 15000.00



Handbook of Optical Engineering



Daniel Malacara, Brian J. Thompson

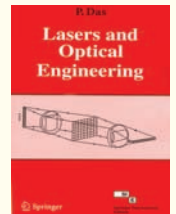
Contents: 1. Basic ray optics, 2. Basic wave optics, 3. Basic photon optics, 4. Refractive optical components, 5. Reflective optical components, 6. Diffractive optical components, 7. Some lens optical devices, 8. Telescopes; 9. Spectrometers, 10. Wavefront slope measurements in optical testing, 11. Basic interferometers, 12. Modern fringe pattern analysis in interferometry, 13. Optical Methods in metrology: Point methods, 14. Optical metrology of diffuse objects: full-field methods, 15. Holography, 16. Fourier optics and optical image processing, 17. Electro-optical and Acousto-optical Devices, 18. Radiometry, 19. Incoherent light sources, 20. Lasers, 21. Spatial and spectral filters, 22. Optical fibers and accessories, 23. Isotropic amorphous optical materials, 24. Anisotropic materials, 25. Light-sensitive material, 26. Optical fabrication.

Rpt.2014 978 pp 9780824799601 HB BSPCRC Rs. 7000.00

Lasers and Optical Engineering

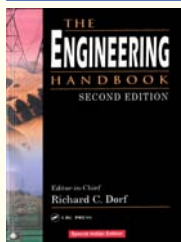
Das

Contents: Part-I Geometrical Optics, 1. Fundamentals of Geometrical Optics, 2. Matrix Formulation of Geometrical Optics, 3. Image Formation, 4. Complex Systems, 5. The Tele Scoping System, 6. Some comments About the Matrix Method, 7. Apertures and Stops, 8. Radiometry and Photometry, 9. Exact Matrices and Aberration, Part-II Physical Optics, 10. Wave Optics and Fourier Optics, 11. Fundamentals of Diffraction, 12. Radiation from a Source, 13. The Diffraction Problem, 14. Different Regions of Diffraction, 15. The Fourier Transform, 16. Some Examples of Fraunhofer Diffraction, 17. Phase Transmission Functions and Lens, 18. Fresnel Diffraction, 19. Detection and Coherence, 20. Interference, 21. Holography, 22. Physical optics, Part-III Lasers, 23. Introduction, 24. Amplifier and Oscillator, 25. The Fabry – Perot Laser, 26. Laser Cavity, 27. Gaussian Beam Optics, 28. Solution of the Cavity Problem, 29. Photon, Stimulated, and Spontaneous Emission, and the Einstein Relationship, 30. Light Amplifier - Population Inversion, 31. Different types of Light Amplifiers and Quantum Efficiency, 32. Rate Dynamics of Four-Level Lasers, 33. Properties of Light Laser, 34. Q-Switching and Mode Locking, 35. Lasers, Part-IV Applications



Rpt. 2006 470 pp 978-81-8128-527-0 BSPSPR PB * Rs. 675.00

ELECTRONICS



The Engineering Handbook



Richard C. Dorf

Contents: 1. Statics, 2. Mechanics of Materials, 3. Dynamics And Vibration, 4. Kinematics and Mechanisms, 5. Structures, 6. Fluid Mechanics, 7. Thermodynamics and Heat Transfer, 8. Separation Processes, 9. Fuels And Energy Conversion, 10. Kinetics and Reaction Engineering, 11. Geotechnical, 12. Transportation, 13. Coastal and Ocean Engineering, 14. Environmental Systems And Management, 15. Water Resources Engineering, 16. Linear Systems And Models, 17. Circuits, 18. Electronics, 19. Digital Systems, 20. Communications And Signal Processing, 21. Computers, 22. Measurement and Instrumentation, 23. Surveying, 24. Control Systems, 25. Manufacturing, 26. Aeronautical And Aerospace, 27. Safety, 28. Engineering Economics and Management, 29. Materials Engineering, 30. Mathematics

Rpt.2014 3080 pp 9780849315862 BSPCRC HB Rs. 6000.00

CRC Handbook of Engineering Tables



Richard C. Dorf

Contents: 1. Electrical and Computer Engineering, 2. Civil and Environmental Engineering, 3. Chemical Engineering, Chemistry, and Materials Science 4. Mechanical Engineering, 5. General Engineering and Mathematics

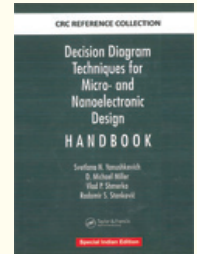


Rpt.2013 656 pp 9780849315879 BSPCRC HB Rs. 3000.00

ELECTRONICS

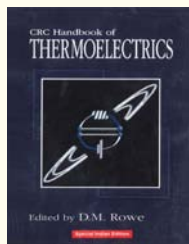
Decision Diagram Techniques for Micro- and Nanoelectronic Design Handbook

Svetlana N. Yanushkevich, D. Michael Miller



Contents: I: Fundamentals of Decision Diagram Techniques, 1. Introduction, 2. Data Structures, 3. Graphical Data Structures, 4. AND-EXOR Expressions, Trees, and Diagrams, 5. Arithmetic Representations, 6. Word-Level Representations, 7. Spectral Techniques, 8. Information-Theoretical Measures, 9. Event-Driven Analysis, **II: Decision Diagram Techniques for Switching Functions**, 10. Introduction, 11. Classification of Decision Diagrams, 12. Variable Ordering in Decision Diagrams, 13. Spectral Decision Diagrams, 14. Linearly Transformed Decision Diagrams, 15. Decision Diagrams for Arithmetic Circuits, 16. Edge-Valued Decision Diagrams, 17. Word-Level Decision Diagrams, 18. Minimization via Decision Diagrams, 19. Decision Diagrams for Incompletely Specified Functions, 20. Probabilistic Decision Diagram Techniques, 21. Power Consumption Analysis using Decision Diagrams, 22. Formal Verification of Circuits, 23. Ternary Decision Diagrams, 24. Information-Theoretical Measures in Decision Diagrams, 25. Decomposition Using Decision Diagrams, 26. Complexity of Decision Diagrams, 27. Programming of Decision Diagrams, **III: Decision Diagram Techniques for Multivalued Functions**, 28. Introduction, 29. Multivalued Functions 30. Spectral Transforms of Multivalued Functions, 31. Classification of Multivalued Decision Diagrams, 32. Event-Driven Analysis in Multivalued Systems, **IV: Selected Topics of Decision Diagram Techniques**, 33. Introduction, 34. Three-Dimensional Techniques, 35. Decision Diagrams in Reversible Logic 36. Decision Diagrams on Quaternion Groups, 37. Linear Word-Level Decision Diagrams, 38. Fibonacci Decision Diagrams, 39. Techniques of Computing via Taylor-Like Expansions, 40. Developing New Decision Diagrams 41. Historical Perspectives and Open Problems

Rpt.2013 923 pp 9780849334245 BSPCRC HB Rs. 4000.00



CRC Handbook of Thermoelectrics

D.M. Rowe



Contents: Section A: General Principles and Theoretical Considerations, **Section B:** Material Preparation, **Section C:** Measurement of Thermoelectric Properties, **Section D:** Thermoelectric Materials, **Section E:** Thermoelectric Generation, **Section F:** Generator Applications, **Section G:** Thermoelectric Refrigeration, **Section H:** Applications of Thermoelectric Cooling

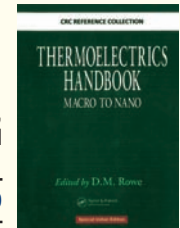
Rpt. 2014 706 pp 9780849301469 HB BSPT&F Rs. 6000.00

Thermoelectrics Handbook Macro to Nano

D. M. Rowe

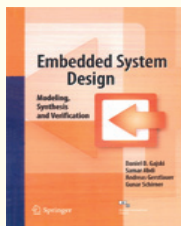


Contents: Section I. General Principals and Theoretical Considerations, **Section II.** Material preparation and Measurements, **Section III.** Thermoelectric Material, **Section IV.** Thermoelements, Modules, and Devices, **Section V.** Thermoelectric systems and Applications



Rpt. 2013 9780849322648 1014 pp HB BSPCRC Rs. 5000.00

EMBEDDED SYSTEMS



Embedded System Design: Modeling Synthesis and Verification



Daniel D.Gajski, Samar Abdi, Andreas Gerstlauer, Gunar Schirner

Contents: 1. Introduction 2. System design methodologies 3. Modeling 4. System synthesis 5. Software synthesis 6. Hardware synthesis 7. Verification 8. Embedded design practice

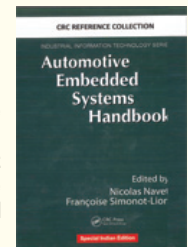
Rpt. 2013 9788132211068 352 pp BSPSPR PB Rs. 895.00

Automotive Embedded Systems Handbook

Nicolas Navet and Françoise Simonot-Lion



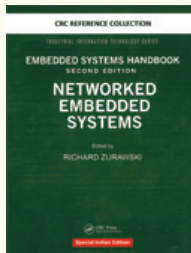
Contents: Part – I: Automotive Architectures, 1. Vehicle Functional Domains and Their Requirements, 2. Application of the AUTOSAR Standard, 3. Intelligent Vehicle Technologies, **Part – II: Embedded Communications**, 4. A Review of Embedded Automotive Protocols, 5. FlexRay Protocol, 6. Dependable Automotive CANs, **Part – III: Embedded Software and Development Processes**, 7. Product Lines in Automotive Electronics, 8. Reuse of Software in Automotive Electronics, 9. Automotive Architecture Description Languages, 10. Model-Based Development of Automotive Embedded Systems, **Part – IV: Verification, Testing, and Timing Analysis**, 11. Testing Automotive Control Software, 12. Testing and Monitoring of FlexRay-Based Applications, 13. Timing Analysis of CAN-Based Automotive Communication Systems, 14. Scheduling Messages with Offsets on Controller Area Network A Major Performance Boost, 15. Formal Methods in the Automotive Domain: The Case of TTA



Rpt.2013 9780849380266 470 pp BSPCRC HB Rs. 3000.00

Visit: www.bspbooks.net / www.bsppublications.net for latest updates

EMBEDDED SYSTEMS



Embedded Systems Handbook, Networked Embedded Systems, 2nd Ed.



Richard Zurawski

Contents: Part I. Networked Embedded Systems: An Introduction, Part II. Wireless Sensor Networks, Automotive Networked Embedded Systems, Part III. Networked Embedded Systems in Industrial Automation, Part IV. Networked Embedded Systems in Building Automation and Control

Rpt. 2013 9781439807613 837 pp BSPCRC HB Rs. 3000.00

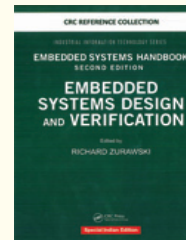
Embedded Systems Handbook, Embedded Systems Design and Verification, 2nd Ed.



Richard Zurawski

Contents: Part I: System-Level Design and Verification, Part II: Embedded Processors and System-on-Chip Design, Part III: Embedded System Security and Web Services.

Rpt. 2013 9781439807552 666 pp BSPCRC HB Rs. 3000.00



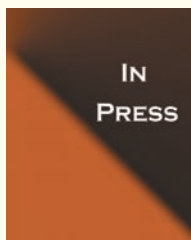
High Performance Embedded Computing Handbook: A Systems Perspective



David R. Martinez, Robert A. Bond, M. Michael Vai

Contents:Section I: Introduction, 1. A Retrospective on High Performance Embedded Computing, 2. Representative Example of a High Performance Embedded Computing System, 3. System Architecture of a Multiprocessor System, 4. High Performance Embedded Computers: Development Process and Management Perspectives, Section II: Computational Nature of High Performance Embedded Systems, 5. Computational Characteristics of High Performance Embedded Algorithms and Applications, 6. Radar Signal Processing: An Example of High Performance Embedded Computing, Section III: Front-End Real-Time Processor Technologies, 7. Analog-to-Digital Conversion, 8. Implementation Approaches of Front-End Processors, 9. Application-Specific Integrated Circuits, 10. Field Programmable Gate Arrays, 11. Intellectual Property-Based Design, 12. Systolic Array Processors, Section IV: Programmable High Performance Embedded Computing Systems, 13. Computing Devices, 14. Interconnection Fabrics, 15. Performance Metrics and Software Architecture, 16. Programming Languages, 17. Portable Software Technology, 18. Parallel and Distributed Processing, 19. Automatic Code Parallelization and Optimization, Section V: High Performance Embedded Computing Application Examples, 20. Radar Applications, 21. A Sonar Application, 22. Communications Applications, 23. Development of a Real-Time Electro-Optical Reconnaissance System, Section VI: Future Trends, 24. Application and HPEC System Trends, 25. A Review on Probabilistic CMOS (PCMO) Technology: From Device Characteristics to Ultra-Low-Energy SOC Architectures, 26. Advanced Microprocessor Architectures

Rpt. 2013 567 pp 9780849371974 BSPCRC HB Rs. 3500.00



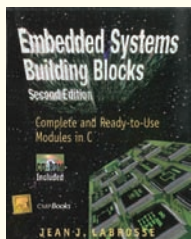
Embedded System Design: Embedded Systems Foundations of Cyber-Physical Systems



Marwedel

Contents: 1. Introduction 2. Specifications and Modeling 3. Embedded System Hardware 4. System Software 5. Evaluation and Validation 6. Application mapping 7. Optimization 8. Test

Rpt. 2013 400 pp 9789400702561 PB BSPT&F Rs. 795.00



Embedded Systems Building Blocks, 2nd Ed.

Jean J. Labrosse

Contents: 1. Sample Code 2. Real-Time Systems Concepts 3. Keyboards 4. Character LCD Displays 5. Character LCD Models 6. Time-of-Day Clock 7. Timer Manager 8. Discrete I/Qs 9. Fixed-Point Math 10. Analog I/Os 11. Asynchronous Serial Communications 12. PC Services

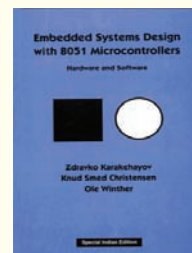
Rpt. 2011 611 pp 978-93-80501-89-5 BSPELS PB * Rs. 1150.00

Embedded Systems Design with 8051 Microcontrollers Hardware and Software

Zdravko Karakehayov

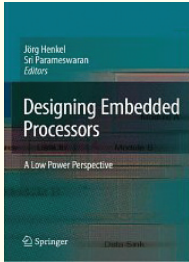
Contents: 1. Basic Concepts 2. The 8051 Microcontroller 3. The 8051 Assembly Language Programming 4. Digital Interfacing 5. Analog Intefacing 6. Interfacing Personal Compuers 7. The83C5 Microcontroller 8. Serial Interfaces for Distributed Embedded Systems 9. High Level Langauges for Microcontrollers 10. Embedded Systems Design 11. Design Examples

Rpt. 2010 417 pp 9780824776961 BSPT&F PB * Rs. 795.00



Visit: www.bspbooks.net / www.bspublications.net for latest updates

EMBEDDED SYSTEMS



Designing Embedded Processors: A Low Power Perspective

Henkel, Jörg; Parameswaran

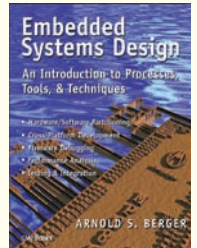
Contents: Part I: Application Specific Embedded Processors **1.** Application-Specific Embedded Processors **2.** Low-Power Design with NISC Technology **3.** Synthesis of Instruction Sets for High Performance and Energy Efficient ASIP **4.** A Framework for Extensible Processor Based MPSoC Design **5.** Design and Run Time Code Compression for Embedded Systems **Part II:** Embedded Memories **6.** Power Optimization Strategies Targeting the Memory Subsystem **7.** Layer Assignment Techniques for Low Energy Multi-Layered Memory Organizations **8.** Memory Bank Locality and its Usage in Reducing Energy Consumption **Part III:** Dynamic Voltage and Frequency Scaling **9.** Fundamentals of Power Aware Scheduling **10.** Static DVFS Scheduling **11.** Dynamic DVFS Scheduling **12.** Voltage Selection for time-constrained Multi-Processor Systems **Part IV:** Compiler Techniques **13.** Compilation Techniques for Power, Energy, and Thermal Management **14.** Compiler-Directed Dynamic CPU Frequency and Voltage Scaling **15.** Link Idle Period Exploitation for Network Power Management **16.** Remote Task Mapping. **Part V:** Multi-Processors. **17:** A Power and Energy Perspective on Multi-Processors **18.** System-level Design of Network on Chip Architectures **19.** Power-Performance Modeling and Design for Heterogeneous Multiprocessors **Part VI:** Reconfigurable Computing **20.** Basic of Reconfigurable Computing **21.** Dynamic Reconfiguration **22.** Applications, Design Tools and Low Power Issues in FPGA Reconfiguration

Rpt. 2011 550 pp 978-81-8489-847-7 BSPSPR PB * Rs. 750.00

Embedded Systems Design: An Introduction to Processes, Tools, and Techniques

Arnold S. Berger, Berger

Contents: **1.** The Embedded Design Life Cycle **2.** The Selection Process **3.** The Partitioning Decision **4.** The Development Environment **5.** Special Software Techniques **6.** A Basic Toolset **7.** BDM, JTAG, and Nexus **8.** The ICE - An Integrated Solution **9.** Testing **10.** The Future



Rpt. 2010 237 pp 978-93-80501-74-1 BSPELS PB * Rs. 595.00



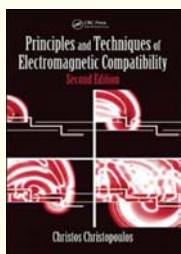
Designing Embedded Systems with PIC® Microcontrollers, 2nd Ed. Principles and Applications

Tim Wilmshurst

Contents: **1.** Tiny Computers, Hidden Control **2.** Introducing the PIC 16 series, and the 16F84A **3.** Parallel Ports, Power Supply, and the Clock Oscillator **4.** Starting to Program - An Introduction to Assembler **5.** Building Assembler Programs **6.** Working with Time: Interrupts, Counters, and Timers Unchanged **7.** Larger Systems and the PIC 16883A **8.** The Human and Physical Interface **9.** Taking Timing Further **10.** Starting with Serial **11.** Data Acquisition and Manipulation **12.** Smarter Systems and the PIC 18FXX2 **13.** The PIC 18FXX2 Peripherals **14.** Introducing C **15.** C and the Embedded Environment **16.** Acquiring and Using Data with C **17.** More C and the Wider C environment **18.** Multi-tasking and the Real Time Operating System **19.** The Salvo Real Time Operating System **20.** Connectivity and Networks **21.** A Zigbee project **22.** A Survey of 16/32 bit PIC Microcontrollers, and DSPIC

Rpt. 2010 661 pp 978-93-80501-82-6 BSPELS PB * Rs. 695.00

ENGINEERING ELECTROMAGNETICS



Principles and Techniques of Electromagnetic Compatibility, 2nd Ed.



Christos Christopoulos

Contents: **Part I:** UNDERLYING CONCEPTS AND TECHNIQUES, **1.** Introduction to Electromagnetic Compatibility, **2.** Electromagnetic Fields, **3.** Electrical Circuit Components, **4.** Electrical Signals and Circuits, **Part II:** GENERAL EMC CONCEPTS AND TECHNIQUES, **5.** Sources of Electromagnetic Interference, **6.** Penetration through Shields and Apertures, **7.** Propagation and Crosstalk, **8.** Simulation of the Electromagnetic Coupling Between Systems, **9.** Effects of Electromagnetic Interference on Devices and Systems, **Part III:** INTERFERENCE CONTROL TECHNIQUES, **10.** Shielding and Grounding, **11.** Filtering and Nonlinear Protective Devices, **12.** General EMC Design Principles, **Part IV:** EMC STANDARDS AND TESTING, **13.** EMC Standards, **14.** EMC Measurements and Testing, **15.** EMC IN SYSTEMS DESIGN, **16.** EMC and Signal Integrity (SI), **17.** EMC and Wireless Technologies, **18.** EMC and Broadband Technologies, **19.** EMC and Safety, **20.** Statistical EMC

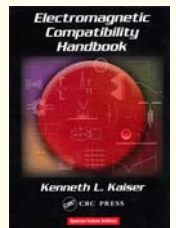
Rpt. 2013 9780849370359 536 pp BSPT&F PB Rs. 895.00

Electromagnetic Compatibility Handbook



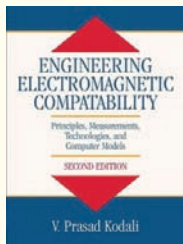
Kenneth L. Kaiser

Contents: **1.** EMI Sources, **2.** Decibel and Approximations, **3.** Electrical Length, **4.** Fast Bode Magnitude Plotting, **5.** Skin Depth, Wire Impedance, and Nonideal Resistors, **6.** Nonideal Capacitors and Inductors, **7.** Passive Filters, **8.** Cable Modeling, **9.** Transient Behaviour in the Time Domain, **10.** Air Breakdown, **11.** Transient Behaviour in the Frequency Domain, **12.** Spectra of Periodic and Aperiodic Signals, **13.** Transmission Lines and Matching, **14.** Passive Contact Probes, **15.** Inductance, Magnetic Coupling, and Transformers, **16.** Magnetic Materials and a Few Devices, **17.** Baluns and Balanced Circuits, **18.** Cable Shielding and Crosstalk, **19.** Radiated Emissions and Susceptibility, **20.** Conducted Emissions and Susceptibility, **21.** Plane Wave Shielding, **22.** Electric Field Shielding, **23.** Magnetic Field Shielding, **24.** Additional Shielding Concepts, **25.** Test Chambers, **26.** Floating Metal and Guard Electrodes, **27.** Electrostatic Discharge, **28.** Grounding, **29.** Circuit Board Layout for EMC, **30.** Antennas



Rpt.2014 2568 pp 9780849320873 BSPCRC HB Rs. 6000.00

ENGINEERING ELECTROMAGNETICS

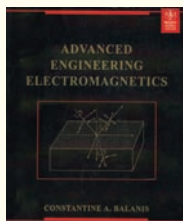


**Engineering Electromagnetic Compatibility:
Principles, Measurements, Technologies and Computer Models, 2nd Ed**

V. Prasad Kodali

Contents: 1. Introduction 2. Natural and Nuclear Sources of EMI 3. EMI From Apparatus and Circuits 4. Probabilistic and Statistical Physical Models 5. Open-Area Test Sites 6. Radiated Interference Measurements 7. Conducted Interference Measurements 8. Pulsed Interference Immunity 9. Grounding, Shielding, and Bonding 10. EMI Filters 11. Cables, Connectors, and Components 12. Frequency Assignment and Spectrum Conservation 13. EMC Computer Modeling and Simulation 14. Signal Integrity 15. EMC Standards

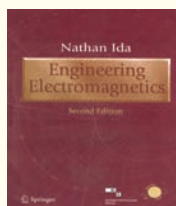
Rpt. 2010 9788126525799 425 pp BSPJ/W * Rs. 1150.00



Advanced Engineering Electromagnetics

Constantine A. Balanis

**Rpt. 2008 981 pp
978-81-265-1856-2 BSPJW * Rs. 1295.00**

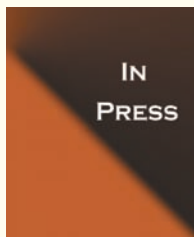


Engineering Electromagnetics, 2nd Ed.

Nathan Ida

**Rpt. 2008 1236 pp
978-818128-273-6 BSPSPR * Rs. 995.00**

HDL / VHDL / VERILOG / VLSI/FPGA



System-on-a-Chip Verification

Rashinkar, Prakash, Paterson, Peter, Singh, Leena



Contents: 1: Introduction 2. System-Level Verification. 3. Block-Level Verification 4. Analog/Mixed Signal Simulation 5. Simulation 6. Hardware/Software Co-verification 7. Static Netlist Verification 8. Physical Verification and Design Sign-off

Rpt. 2013 372 PP 978-0-306-46995-4 BSPSPR PB Rs. 895.00

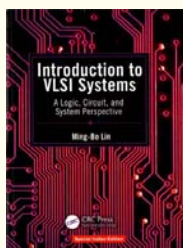
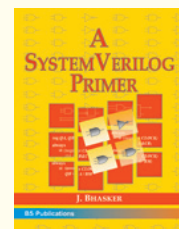
A System Verilog Primer

J. Bhasker



Contents: 1. Introduction 2. Language Elements 3. Composite Types 4. Expressions 5. Behavioral Modeling 6. Structural Modeling 7. Other Topics 8. Advanced Verification Topics 9. Assertions

2013 327 pp 978-81-7800-280-4 BSPBSP PB Rs. 495.00



**Introduction to VLSI Systems:
A Logic, Circuit, and System Perspective**

Ming-Bo Lin



Contents: 1. Introduction 2. Fundamentals of MOS Transistors 3. Fabrication of CMOS ICs 4. Layout Designs 5. Delay Models and Path-Delay Optimization 6. Power Dissipation and Low-Power Designs 7. Static Logic Circuits 8. Dynamic Logic Circuits 9. Sequential Logic Designs 10. Datapath Subsystem Designs 11. Memory Subsystems 12. Design Methodologies and Implementation Options 13. Interconnect 14. Power Distribution and Clock Designs 15. Input/Output Modules and ESD Protection Networks 16. Testing, Verification, and Testable Designs 17. An Introduction to Verilog HDL/System Verilog

Rpt. 2014 885 pp 9781439868591 BSPCRC HB Rs. 1495.00

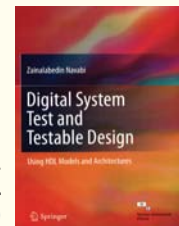
Digital System Test and Testable Design

Navabi, Zainalabedin

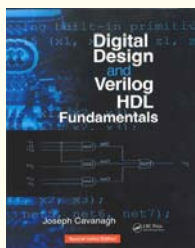


Contents: 1. Basics of Test and Role of HDLs, 2. Verilog HDL for Design and Test, 3. Fault and Defect Modeling, 4. Fault Simulation Applications and Methods, 5. Test Pattern Generation Methods and Algorithms, 6. Deterministic Test Generation Algorithms, 7. Standard IEEE Test Access Methods, 8. Logic Built-in Self-test, 9. Test Compression, 10. Memory Testing by Means of Memory BIST

Rpt.2014 435 pp 9788132214403 BSPSPR PB Rs. 995.00



HDL / VHDL / VERILOG / VLSI/FPGA

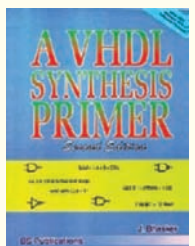


Digital Design and Verilog HDL Fundamentals

Joseph Cavanagh

Contents: 1. Number Systems, Number Representations, and Codes 2. Minimization of Switching Functions 3. Combinational Logic 4. Combinational Logic Design Using Verilog HDL 5. Computer Arithmetic 6. Computer Arithmetic Design Using Verilog HDL 7. Sequential Logic 8. Sequential Logic Design Using Verilog HDL 9. Programmable Logic Devices 10. Digital and Analog Conversion 11. Magnetic Recording Fundamentals 12. Additional Topics in Digital Design

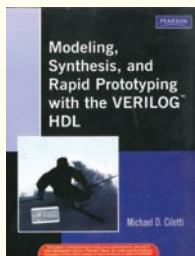
Rpt. 2010 1147 PP 978-1-4200-7415-4
BSP&F * Rs. 1495.00



A VHDL Synthesis Primer: Learn to Model for Synthesis using VHDL!, 2nd Ed.

J. Bhaskar

2008 296 pp 978-81-7800-014-5
BSPBSP Rs. 295.00

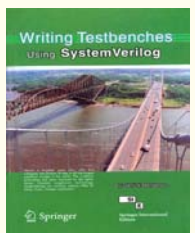


Modeling, Synthesis, and Rapid Prototyping with the Verilog™ HDL

Michael D. Ciletti

Contents: 1. Introduction to Electron Design Automation 2. Hardware Modeling with the Verilog HDL 3. Event-Driven Simulation and Testbenches 4. Logic System, Data Types, and Operators for Modeling in Verilog HDL 5. User-Defined Primitives 6. Verilog Models of Propagation Delay 7. Behavioral Descriptions in Verilog HDL 8. Synthesis of Combinational Logic 9. Synthesis of Sequential Logic 10. Synthesis of Language Constructs 11. Switch-Level Models in Verilog 12. Design Examples in Verilog 13. Rapid Prototyping with XILINX FPGAs

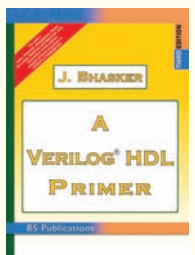
Rpt. 2010 727 pp 978-81-317-3256-4
BSPPEA * Rs. 995.00



Writing Testbenches using System Verilog

Janick Bergeron

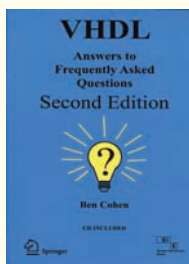
Rpt. 2009 512 pp 978-81-8489-269-7
BSPSPR * Rs. 1095.00



A Verilog® HDL Primer, 3rd Ed.

J. Bhaskar

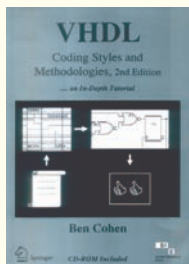
Indian Rpt. 2008 378 pp
978-81-7800-142-5 BSPBSP *Rs. 425.00



VHDL: Answers to Frequently Asked Questions, 2nd Ed.(CD included)

Cohen Ben

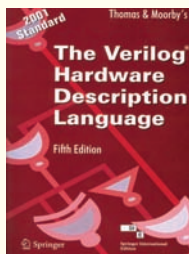
Rpt. 2008 384 pp 978-81-8128-813-4
BSPSPR * Rs. 1095.00



VHDL Coding Styles and Methodologies, 2nd Ed.

Cohen, Ben

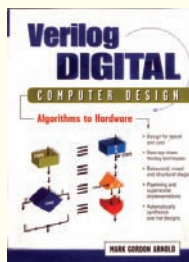
Rpt. 2008 453 pp
978-81-8128-315-3 BSPSPR * Rs. 795.00



The Verilog® Hardware Description Language, 5th Ed.

Thomas and Moorby

Rpt. 2007 381 pp 978-81-8128-611-6
BSPSPR * Rs. 850.00

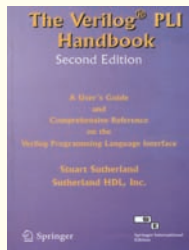


Verilog Digital Computer Design: Algorithms to Hardware

Mark Gordon Arnold

Contents: 1. Why Verilog Computer Design 2. Designing ASMs 3. Verilog Hardware Description Language 4. Three Stages for Verilog Design 5. Advanced ASM Techniques 6. Designing for Speed and Cost 7. One Hot Designs 8. General-Purpose Computers 9. Pipelined General-Purpose Processor 10. RISC Processors 11. Synthesis

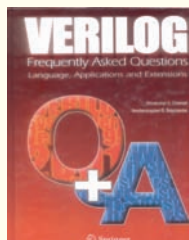
Rpt. 2010 602 pp 978-81-317-3371-4
BSPPEA * Rs. 1295.00



The Verilog® PLI Handbook, 2nd Ed. (with CD ROM)

Stuart Sutherland

2008 784 pp 978-81-8128-812-2
BSPSPR * Rs. 2295.00



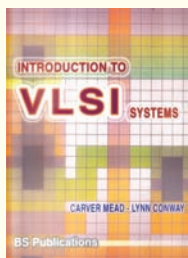
Verilog: Frequently Asked Questions Language, Applications and Extensions

Chonnad and Balachander

Rpt. 2007 238 pp 81-8128-583-2
BSPSPR * Rs. 695.00

Visit: www.bspbooks.net / www.bsppublications.net for latest updates

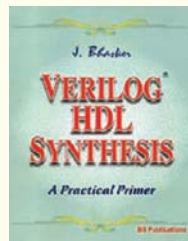
HDL / VHDL / VERILOG / VLSI/FPGA



Introduction to VLSI Systems

Carver Mead & Lynn Conway

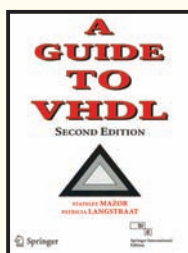
2009 396 pp 81-7800-041-5
BSPBSP Rs. 375.00



Verilog® HDL Synthesis: A Practical Primer

J. Bhaskar

2008 215 pp 81-7800-011-3
BSPBSP Rs. 275.00



A Guide to VHDL, 2nd Ed.

Mazor and Langstraat

Rpt. 2006 336 pp 81-8128-556-9
BSPSPR * Rs. 695.00



CMOS VLSI Engineering Silicon-on-Insulator (SOI)

James B. Kuo and Ker-Wei Su

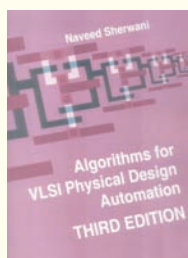
Rpt. 2009 422 pp 978-81-8128-579-9
BSPSPR * Rs. 995.00



Analog Design for CMOS VLSI Systems

Franco Maloberti

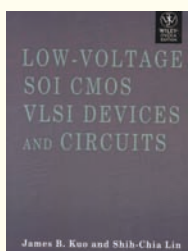
Rpt. 2007 374 pp 978-81-8128-434-1
BSPSPR * Rs. 950.00



Algorithms for VLSI Physical Design Automation, 3rd Ed.

Sherwani, Naveed A.

Rpt. 2009 572 pp 978-81-8128-317-7
BSPSPR * Rs. 895.00



Low-Voltage SOI CMOS VLSI Devices and Circuits

James B. Kuo and Shih-Chia Lin

Rpt. 2011 407 pp 978-81-265-1817-3
BSPJW * Rs. 995.00

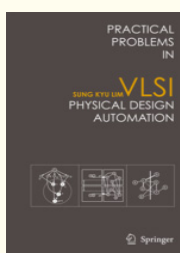


Digital VLSI Systems Design, with CD-ROM

Ramachandran

Contents: 1. Introduction to Digital VLSI Systems Design 2. Review of Digital Systems Design 3. Design of Combinational and Sequential Circuits using Verilog 4. Writing a Test Bench for the Design 5. RTL Coding Guidelines 6. Simulation of Designs – Modelsim Tool 7. Synthesis of Designs – Synplify Tool 8. Place and Route and Back annotation 9. Design of Memories 10. Arithmetic Circuit Designs 11. Development of Algorithms and Verification using High Level Languages 12. Architectural Design 13. Project Design 14. Hardware Implementations using FPGA and I/O boards 15. Projects suggested for FPGA/ASIC Implementations

Rpt. 2011 709 pp 978-81-8489-823-1
BSPSPR * Rs. 1095.00



Practical Problems in VLSI Physical Design Automation

Lim

Contents: 1. CLUSTERING. 2. PARTITIONING. 3. FLOORPLANNING 4. PLACEMENT 5. STEINER ROUTING 6. MULTI-NET ROUTING

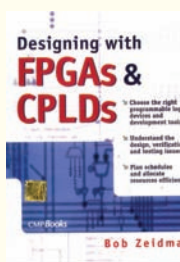
Rpt. 2011 264 pp 978-81-3220-243-1
BSPSPR * Rs. 595.00



VLSI Design Methodologies for Digital Signal Processing Architectures

Bayoumi, Magdy A.

Rpt. 2009 399 pp 978-81-81283-16-0
BSPSPR * Rs. 795.00



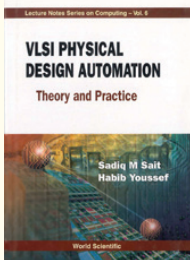
Designing with FPGAs & CPLDs

Bob Zeidman

Contents: 1. Prehistory: Programmable Logic to ASICs 2. Complex Programmable Logic Devices (CPLDs) 3. Field Programmable Gate Arrays (FPGAs) 4. Universal Design Methodology for Programmable Devices 5. Design Techniques, Rules, and Guidelines 6. Verification 7. Electronic Design Automation Tools 8. Today and the Future

Rpt. 2011 220 pp 978-93-80501-90-1 BSPCMP * Rs. 625.00

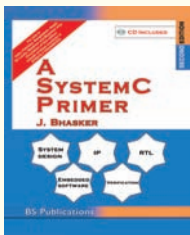
HDL / VHDL / VERILOG / VLSI/FPGA



VLSI Physical Design Automation: Theory and Practice

Sadiq M. Sait and Habib Yousef

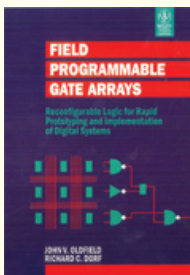
Rpt. 2006 482 pp
978-81-7596-734-2 BSPCUP * Rs. 595.00



A SystemC Primer (CD included), 2nd Ed.

J. Bhasker

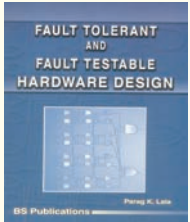
Indian Rpt. 2008 294 pp
978-81-7800-141-8 BSPBSP Rs. 350.00



Field-Programmable Gate Arrays: Reconfigurable Logic for Rapid Prototyping and Implementation of Digital Systems

Oldfield

Rpt. 2008 327 pp 978-81-265-1661-2
BSPJ/W * Rs. 825.00



Fault Tolerant & Fault Testable Hardware Design

Parag K. Lala

2007 263 pp 81-7800-038-5
BSPBSP * Rs. 375.00



Timing Analysis and Optimization of Sequential Circuits

Maheshwari, Sapatnekar S.

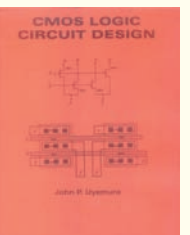
Rpt. 2007 190 pp 81-8128-586-7
BSPSPR HB * Rs. 850.00



Field-Programmable Gate Arrays

Brown, S.D., Francis, R.J., Rose, J., Vranesic, Z.G

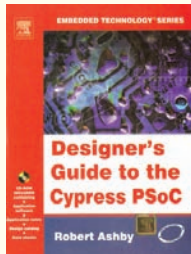
Rpt. 2007 206 pp 978-81-8128-689-5
BSPSPR * Rs. 650.00



CMOS Logic Circuit Design

Uyemura, John P.

Rpt. 2005 528 pp 978-81-8128-312-2
BSPSPR PB * Rs. 795.00

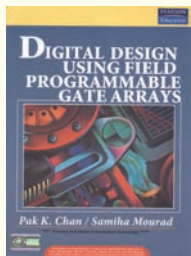


Designer's Guide to the Cypress PSoC (With CD)

Robert Ashby

Contents: 1. Why use the Cypress PSoC? 2. Structure of the PSoC 3. PSoC Designer 4. Limitations of the PSoC 5. Improvements of the PSoC 6. PSoC Modules 7. Interconnects 8. PSoC Memory Management 9. Multiple Configurations 10. Project Pruning 11. Design Tips 12. PSoC Express Appendix A: Global Resources Appendix B: Project Walkthrough Appendix C: Limited Analog System

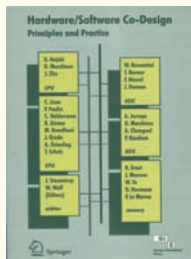
Rpt. 2010 245 pp 978-81-312-0580-8
BSPELS Rs. 550.00



Digital Design using Field Programmable Gate Arrays

Chan and Mourad

Rpt. 2009 233 pp 978-81-317-2440-8
BSPPEA * Rs. 395.00



Hardware/Software Co-Design: Principles and Practice

Jørgen Staunstrup and Wayne Wolf

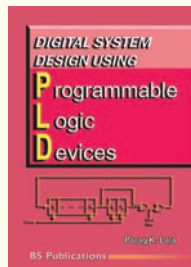
Rpt. 2009 395 pp 978-81-8128-684-0
BSPSPR * Rs. 895.00



CMOS Integrated Analog-to-Digital & Digital-to-Analog Converters, 2nd Ed.

van de Plassche, Rudy J.

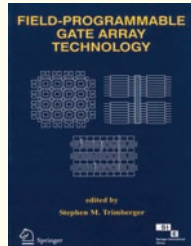
Rpt. 2005 588 pp 978-81-8128-311-5
BSPSPR * Rs. 895.00



Digital System Design Using Programmable Logic Devices

Parag K. Lala

2006 286 pp 978-81-7800-039-8
BSPBSP * Rs. 395.00



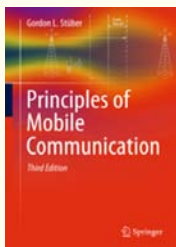
Field-Programmable Gate Array Technology

Stephen M. Trimberger

Rpt. 2007 258 pp 978-81-8128-603-1
BSPSPR * Rs. 850.00

Visit: www.bspbooks.net / www.bspublications.net for latest updates

MICROWAVE ENGINEERING / MOBILE COMMUNICATIONS



Principles of Mobile Communication, 3rd Ed.

Stüber Gordon L.

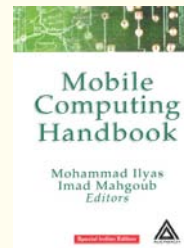


Contents: 1. Introduction 2. Propagation Modeling 3. Co-channel Interference 4. Digital Modulation and Power Spectrum 5. Digital Signaling on Flat Fading Channels 6. Multi-antenna Techniques 7. Equalization and Interference Cancellation 8. Error Control Coding 9. Spread Spectrum Techniques 10. Multi-carrier Techniques 11. Frequency Planning Techniques 12. CDMA Cellular Systems 13. Radio Resource Management

Rpt. 2013 9788132211082 797 pp BSPSPR Rs. 1095.00

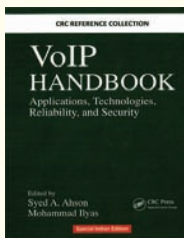
Mobile Computing Handbook

Mohammad Ilyas and Imad Mahgoub



Contents: Section 1: Introduction and Applications of Mobile Computing, Section 2: Location Management, Section 3: Location-Based Services, Section 4: Caching Strategies, Section 5: Mobile and Ad Hoc Wireless Networks I, Section 6: Mobile and Ad Hoc Wireless Networks II, Section 7: Power Management, Section 8: Performance And Modeling, Section 9: Security And Privacy Aspects

Rpt. 2014 9780849319716 1032 pp BSPT&F HB Rs. 5000.00



VoIP Handbook

Syed A. Ahson, Mohammad Ilyas



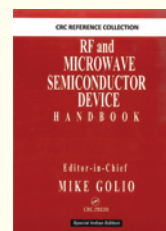
Contents: Part I: INTRODUCTION, 1. Deploying VoIP in Existing IP Networks, 2. Multipoint VoIP in Ubiquitous Environments, 3. VoIP in a Wireless Mobile Network, 4. SIP and VoIP Over Wireless Mesh Networks, Part II: TECHNOLOGIES, 5. Compression Techniques for VoIP Transport over Wireless Interfaces, 6. QOS Monitoring of Voice-Over-IP Services, 7. Current and Future VoIP Quality of Service Techniques, 8. Measurement and Analysis on the Quality of Skype VoIP, 9. QOE Assessment and Management of VoIP Services, 10. Delay Performance and Management of VoIP System, 11. SIP-based VoIP Traffic Behavior Profiling and Its Applications, 12. VoIP Over WLAN Performance, 13. Burst Queue for Voice over Multihop 802.11 Networks, 14. Radio Access Network VoIP Optimization and Performance on 3GPP HSPA/LTE, 15. Emerging Methods for Voice Transport Over MPLS; J. A. Zubairi, Part III:

APPLICATIONS, 16. Implementation of VoIP at the University of Colima, 17. Multiparty Video Conferencing over Internet, 18. IMS Charging Management in Mobile Telecommunication Networks, 19. Commercial Interoperable VoIP IA Architecture; B. Sweeney and D. Wijesekera, Part IV: RELIABILITY AND SECURITY, 20. Security Issues of VoIP, 21. VoWLAN Security Assessment through CVSS, 22. Flash Crowds and Distributed Denial of Service Attacks, 23. Don't Let the VoIP Service to Become a Nuisance for Its Subscribers

Rpt. 2013 453 pp 9781420070200 BSPCRC HB Rs. 2500.00

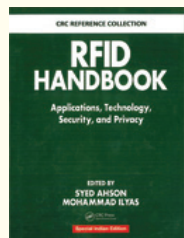
RF and Microwave Semiconductor Device Handbook

GOLIO



Contents: 1. Varactors 2. Schottky Diode Frequency Multipliers 3. Transit Time Microwave Devices 4. Bipolar Junction Transistors 5. Heterostructure Bipolar Transistors 6. Metal-Oxide-Semiconductor Field Effect Transistors, Leonard MacEachern 7. Metal Semiconductor Field Effect Transistors 8. High Electron Mobility Transistors, Prashant Chavarkar 9. RF Power Transistors from Wide Bandgap Materials 10. Monolithic Microwave IC Technology 11. Semiconductors, Mike Harris Metals 12. RF Package Design and Development 13. Thermal Analysis and Design of Electronic Systems 14. Low Voltage/Low Power Microwave Electronics 15. Technology Computer Aided Design 16. Nonlinear Transistor Modeling for Circuit Simulation

Rpt. 2013 336 pp 9780849315626 BSPCRC HB Rs. 2200.00



RFID Handbook: Applications, Technology, Security, and Privacy

Syed Ahson, Mohammad Ilyas

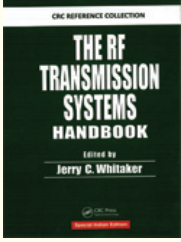


Contents: Section I: Introduction, 1. Physics and Geometry of RFID, 2. EPC global Network, 3. Design Automation for RFID Tags and Systems, 4. Far Field Tag Antenna Design Methodology, 5. Contemporary RFID Reader Architecture, 6. Progress in RFID Education, Section II: TECHNOLOGY, 7. RFID Reader Synchronization, 8. Adaptive Tag Anti Collision Protocols for RFID Passive Tags, 9. Comparative Performance Analysis of Anti-Collision Algorithms in RFID Networks, 10. Maximizing Read Accuracy by Optimally Locating RFID Interrogators, 11. Minimum Energy/Power Considerations, 12. Electromagnetic Coupling in RFID, 13. RFID Tags for Metallic Object Identification, 14. WISP: A Passively Powered UHF RFID Tag with Sensing and Computation, Section III: APPLICATIONS, 15. From Automatic Identification and Data Capture (AIDC) to "Smart Business Process": Preparing for a Pilot Integrating RFID, 16. Technological Requirements and Derived Benefits from RFID Enabled receiving in a Supply Chain, 17. A Prototype on RFID and Sensor Networks for Elder Health Care, 18. Triage with RFID tags for Massive Incidents, 19. RFID Tagging and the Design of "Place", 20. Photosensing RFID Tags for Precise Location and Geometry Queries, 21. RFID and NFC on Mobile Phones, 22. Applying RFID Techniques for the Next-Generation Automotive Services, 23. Application of RFID Technologies for Communication Robots, 24. Browsing the World with RFID Tags, 25. RFID-Enabled Privacy-Preserving Video Surveillance: A Case Study, Section IV: SECURITY AND PRIVACY, 26. Is RFID technology Secure and Private? 27. Privacy and Personal Information Protection in RFID Systems, 28. Multilateral Approaches for Reliable Mobile RFID Service Systems, 29. ONS Security, 30. Practical Steps for Securing RFID Systems, 31. Lightweight Cryptography for Low Cost RFID: A New Direction in Cryptography, 32. Low Overheard RFID Security, 33. Layers of Security for Active RFID Tags, 34. Cryptographic Approaches to RFID Security and Privacy, 35. RFID Authentication: Reconciling Anonymity and Availability, 36. Security and Privacy of RFID for Biomedical Applications: A Survey

Rpt. 2013 689 pp 9781420054996 BSPCRC HB Rs. 3500.00

MICROWAVE ENGINEERING / MOBILE COMMUNICATIONS

The RF Transmission Systems Handbook



Jerry C. Whitaker

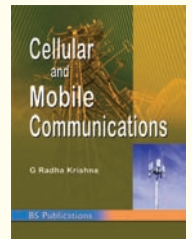
Contents: 1. Applications of RF Technology, 2. Electromagnetic Spectrum, 3. Amplitude Modulation, 4. Frequency Modulation, 5. Pulse Modulation, 6. Digital Modulation, 7. High-Power Vacuum Devices, 8. Microwave Vacuum Devices, 9. Bipolar Junction and Junction Field-Effect Transistors, 10. Metal-Oxide Semiconductor Field-Effect Transistors, 11. Solid-State Amplifiers, 12. Coaxial Transmission Lines, 13. Waveguides, 14. RF Combiner and Diplexer Systems, 15. Radio Wave Propagation, 16. Antenna Principles, 17. Practical Antenna Systems, 18. Preventing RF System Failures, 19. Troubleshooting RF Equipment, 20. RF Voltage and Power Measurement, 21. Spectrum Analysis, 22. Testing Coaxial Transmission Line, 23. The Smith Chart, 24. Tower Construction and Maintenance, 25. Safety Issues for RF Systems

Rpt. 2013 504 pp 9780849309731 BSPCRC HB Rs. 3500.00

Cellular and Mobile Communications

Radha Krishna G.

Contents: 1. Introduction to Wireless Mobile Communication Systems 2. Cellular Mobile Radio Systems 3. Elements of Cellular Radio Systems Design 4. Interference 5. Cell Coverage for Signal and Traffic 6. Cell Site and Mobile Antennas 7. Frequency Management and Channel Assignment 8. Value of Implementing handoffs 9. Digital Cellular Networks

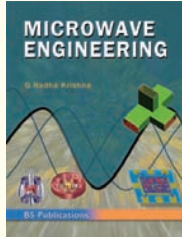


2010 346 pp 978-81-7800-246-0 BSPBSP PB Rs. 210.00

Microwave Engineering

Radha Krishna G.

1. Microwave Transmission Lines 2. Circular Waveguides 3. Waveguide Components and Applications 4. Waveguide Components and Applications 5. Microwave Tubes 6. Helix Traveling Wave Tubes 7. Microwave Solid State Devices 8. Microwave Measurements 9. Microwave Experiments 10. Monolithic Microwave Integrated Circuits



2010 509 pp 978-81-7800-229-3 BSPBSP PB Rs. 275.00

Microwave Integrated Circuits

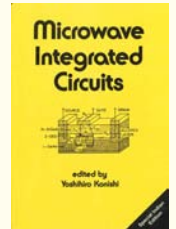
I. Kneppo et. al.

Rpt. 2006 329 pp 978-81-8128-510-2
BSPSPR PB Rs. 675.00

Microwave Integrated Circuits

Konishi

2009 602 pp 978-0-8247-8199-6
BSPT&F PB * Rs. 695.00



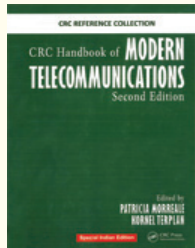
DATA COMMUNICATION / NETWORKS / WIRELESS

CRC Handbook of Modern Telecommunications, 2nd Ed.



Patricia Morreale and Kornel Terplan

Contents: 1. Voice and Data Communications, 2. Intranets, 3. Network Management and Administration, 4. Network Organization and Governance, 5. Future Telecommunications Services.



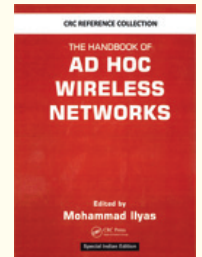
Rpt. 2013 9781420078008 679 pp BSPCRC HB Rs. 3500.00

The Handbook of Ad Hoc Wireless Networks



ILYAS

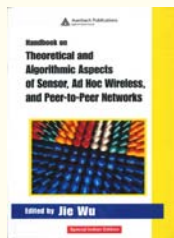
Contents: 1. Body, Personal, and Local Ad Hoc Wireless Networks, 2. Multicasting Techniques in Mobile Ad Hoc Networks, 3. Quality of Service in Mobile Ad Hoc Networks, 4. Power-Conservative Designs in Ad Hoc Wireless Networks, 5. Performance Analysis of Wireless Ad Hoc Networks, 6. Coding for the Wireless Channel, 7. Unicast Routing Techniques for Mobile Ad Hoc Networks, 8. Satellite Communications, 9. Wireless Communication Protocols, 10. An Integrated Platform for Ad Hoc GSM Cellular Communications, 11. IEEE 802.11 and Bluetooth: An Architectural Overview, 12. Position-Based Routing in Ad Hoc Wireless Networks, 13. Structured Proactive and Reactive Routing for Wireless Mobile Ad Hoc Networks, 14. Hybrid Routing: The Pursuit of an Adaptable and Scalable Routing Framework for Ad Hoc Networks, 15. Adaptive Routing in Ad Hoc Networks, 16. Position Based Ad Hoc Routes in Ad Hoc Networks, 17. Route Discovery Optimization Techniques in Ad Hoc Wireless Networks, 18. Location-Aware Routing and Applications in Mobile Ad Hoc Wireless Networks, 19. Mobility Over TCP/IP, 20. An Intelligent On-Demand Multicast Routing Protocol in Ad Hoc Networks, 21. GPS-based Reliable Routing Algorithms in Ad Hoc Networks, 22. Power-Aware Wireless Mobile Ad Hoc Networks, 23. Energy Efficient Multicast in Ad Hoc Networks, 24. Energy-Conserving Grid Routing Protocol in Mobile Ad Hoc Networks, 25. Routing Algorithms for Balanced Energy Consumption in Ad Hoc Networks, 26. An Efficient Resource Discovery Algorithm for Wireless Ad Hoc Networks, 27. An Integrated Platform for Quality-of-Service Support in Mobile Multimedia Clustered Ad Hoc Networks, 28. Quality of Service Models for Ad Hoc Wireless Networks, 29. Scheduling of Broadcasts in Multihop Wireless Networks 30. Security in Wireless Ad Hoc Networks - A Survey, 31. Securing Mobile Ad Hoc Networks, 32. Security Issues in Ad Hoc Networks



Rpt. 2013 9780849313325 624 pp BSPCRC HB Rs. 3000.00

Visit: www.bspbooks.net / www.bspublications.net for latest updates

DATA COMMUNICATION / NETWORKS / WIRELESS



Handbook on Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless, and Peer-to-Peer Networks



Jie Wu

Contents: Section-I: Ad Hoc Wireless Networks, Section-II: Sensor Networks, Section-III: Peer-to-Peer Networks

Rpt.2014 876 pp 9780849328329 BSPT&F HB Rs. 6000.00

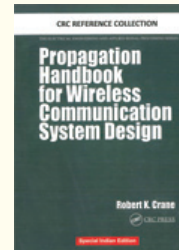
Propagation Handbook for Wireless Communication System Design



CRANE

Contents: 1. Propagation Phenomena Affecting Wireless Systems, 2. Propagation Fundamentals, 3. Absorption, 4. Refraction, 5. Attenuation By Clouds and Rain

Rpt.2013 307 pp 9780849308208 BSPCRC HB Rs. 2500.00



Wireless Ad hoc and Sensor Networks: Protocols, Performance, and Control

Jagannathan Sarangapani

Contents: 1. Background on Networking 2. Background 3. Congestion Control in Atm Networks and The Internet 4. Admission Controller Design for High-speed Networks: A Hybrid System Approach 5. Distributed Power Control of Wireless Cellular and Peer-to-peer Networks 6. Distributed Power Control and Rate Adaptation For Wireless Ad Hoc Networks 7. Distributed Fair Scheduling In Wireless Ad Hoc And Sensor Networks 8. Optimized Energy And Delay-based Routing In Wireless Ad Hoc and Sensor Networks 9. Predictive Congestion Control For Wireless Sensor Networks 10. Adaptive And Probabilistic Power Control Scheme For Rfid Reader Networks

Rpt. 2010 514 pp 978-0-8247-2675-1 BSPT&F *Rs. 895.00

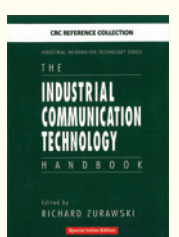
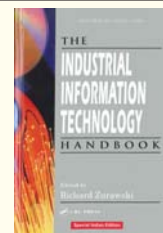
The Industrial Information Technology Handbook



Richard Zurawski

Contents: Part-I: Fundamentals of Information Technology, Section-1: Computer Software and Web Technologies, Section-2: The Internet and IP Networks, Part-II: Industrial Information Technology, Section-3: Industrial Communication Systems, Section-4: The Internet, Web, and IT Technologies in Industrial Automation and Design, Section-5: Intelligent Sensors and Sensor Networks, Section-6: Real-Time Embedded Systems, Section-7: Integration Technologies

Rpt.2014 1936 pp 9780849319853 BSPCRC HB Rs. 6000.00



The Industrial Communication Technology Hand Book



Richard Zurawski

Contents: Part 1: Basics of data communication and IP networks, 1. Principles of Lower-Layer Protocols for Data Communications in Industrial Communication Networks, 2. IP Internetworking, 3. A Perspective on Internet Routing: IP Routing Protocols and Addressing Issues, 4. Fundamentals in Quality of Service and Real-Time Transmission, 5. Survey of Network Management Frameworks, 6. Internet Security, Part 2 : Industrial communication technology and systems, Section I. Field Area and Control Networks, Section II. Ethernet and Wireless Network Technologies, Section III. Linking Factory Floor with the Internet and Wireless Field buses, Section IV. Network Security and Safety Technologies In Industrial Networks, Section V. Applications of Networks and Other Technologies

Rpt.2013 936 pp 9780849330773 BSPCRC HB Rs. 5000.00

Handbook of Multisensor Data Fusion



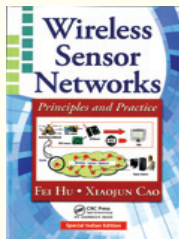
Martin E. Liggins, David L. Hall and James Llinas

Contents: 1. Multisensor Data Fusion, 2. Data fusion Perspectives and Its Role in Information Processing, 3. Revisions to the JDL Data Fusion Model, 4. Introduction to the Algorithmics of Data Association in Multiple-Target Tracking, 5. Principles and Practice of Image and Spatial Data Fusion, 6. Data Registration, 7. Data Fusion Automation: A Top-Down Perspective, 8. Overview of Distributed Decision Fusion, 9. Introduction to Particle Filtering: The Next Stage in Tracking, 10. Target Tracking Using Probabilistic Data Association-Based Techniques with Applications to Sonar, Radar, and EO Sensors, 11. Introduction to the Combinatorics of Optimal and Approximate data Association, 12. Bayesian Approach to Multiple-Target Tracking, 13. Data Association Using Multiple-Frame Assignments, 14. General Decentralized Data Fusion with Covariance Intersection, 15. Data Fusion in Non linear systems, 16. Random Set Theory for Multisource - Multitarget Information Fusion, 17. Distributed Fusion Architectures, Algorithms, and Performance within a Network-centric Architecture, 18. Foundations of situations and Threat assessment, 19. Introduction to level 5 Fusion: The Role of the user, 20. Perspectives on the Human side of Data Fusion: Prospects for Improved Effectiveness using advanced Human-computer Interfaces, 21. Requirements Derivation for Data Fusion Systems, 22. Systems Engineering Approach for implementing Data Fusion Systems, 23. Studies and analysis within project correlation: An In-Depth Assessment of correlation Problems and solution Techniques, 24. Data Management support to tactical Data Fusion, 25. Assessing the performance of Multisensor Fusion Process, 26. Survey of COTS Software for Multisensor Data Fusion, 27. Survey of Multisensor Data Fusion Systems, 28. Data Fusion for Developing Predictive Diagnostics for electromechanical systems, 29. Adapting Data Fusion to chemical and Biological Sensors, 30. Fusion of Ground and Satellite Data via Army Battle command system, 31. Developing Information Fusion Methods for Combat Identification.

Rpt. 2013 872 pp 9781420053081 BSPCRC HB Rs. 4250.00



DATA COMMUNICATION / NETWORKS / WIRELESS



Wireless Sensor Networks Principles and Practice



Fei Hu, Xiaojun Cao

Contents: Part I: **BASICS** 1. Introduction, Part II: **ENGINEERING DESIGN** 2. Hardware – Sensor Mote Architecture and Design, Part III: **NETWORK PROTOCOL STACK** 3. Medium Access Control in Wireless Sensor Networks, 4. Routing in Wireless Sensor Networks, 5. Transport layer in Wireless Sensor Networks, Part IV: **COMPUTER SCIENCE PRINCIPLES** 6. Operating System in Sensors, 7. Middleware Design in Wireless Sensor Networks, 8. Sensor Data Management, Part V: **ADVANCED TOPICS** 9. Sensor Localization, 10. Time Synchronization in Wireless Sensor Networks, 11. Security and Privacy in Wireless Sensor Networks, Part VI: **SPECIAL WIRELESS SENSOR NETWORKS** 12. Wireless Sensor and Actor Networks, 13. Underwater Sensor Networks, 14. Video Sensor Networks, Part VII: **MISCELLANEOUS TOPICS** 15. WSN Energy Model, 16. Sensor Network Simulators Part VIII: **CASE STUDIES**

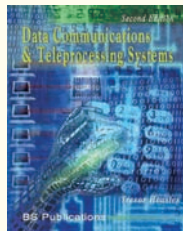
Rpt. 2013 503 pp 9781420092158 BSPT&F PB RS. 995.00



Understanding Data Communications and Networks, 3rd Ed.

William A. Shay

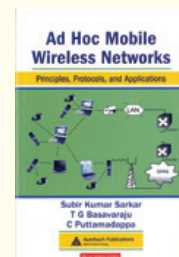
Rpt. 2008 766 pp 978-81-7800-179-1
BSPBSP PB Rs. 495.00



Data Communications & Teleprocessing Systems, 2nd Ed

Trevor Housley

2005 475 pp 978-81-7800-075-6
BSPBSP PB Rs. 300.00

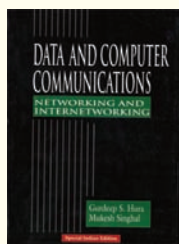


Ad Hoc Mobile Wireless Networks: Principles, Protocols and Applications

Subir Kumar Sarkar, Asis Kumar De and Souvik Sarkar

Contents: 1. Introduction 2. Mac layer protocols for ad hoc wireless networks 3. Routing protocols for ad hoc wireless networks 4. Multicast routing protocols for mobile ad hoc networks 5. Transport protocols for ad hoc networks 6. Quality of service ad hoc networks 7. Energy management system in ad hoc wireless networks 8. Mobility models for multi hop wireless networks 9. Cross layer design issues for ad hoc wireless networks 10. Applications and recent developments in ad hoc networks

Rpt. 2012 9781420062212 312 pp BSPT&F PB *Rs. 595.00

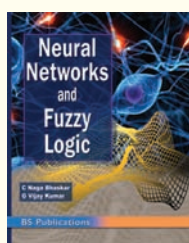


Data and Computer Communications: Networking and Internetworking

Gurdeep S. Hura and Mukesh Singhal

Contents: Part-I: **Computer network applications and standardization**, 1. Computer Networks and Standardization, Part-II: **Fundamentals of Digital Communication and signaling**, 2. Basic Concepts Of Data Communication and signaling, 3. Signal Transmission Basics, 4. Modes Of Communication Channel, 5. Transmission Media, 6. Telephone System, Part-III: **Local Area Networking and internetworking**, 7. Introduction To Local Area Networks (LANs), 8. IEEE LANs, 9. Nonstandard LANs and Internetworking, Part-IV: **The OSI-RM architecture and Protocols**, 10. Physical Layer, 11. Data Link Layer, 12. Network Layer, 13. Transport Layer, 14. Session Layer, 15. Presentation Layer, 16. Application Layer, 17. Internet: Services And Connections, Part-V: **High-speed networking and internetworking**, 18. Integrated Digital Network (IDN) Technology, 19. High Speed Networks, Part-VI: **Client-Server LAN Implementation**, 20. Client-Server computing Architecture

Rpt. 2011 1140 pp 9780849309281 BSPT&F PB Rs. 995.00



Neural Networks and Fuzzy Logic

C. Naga Bhaskar and G Vijay Kumar

Contents: 1. Overview of Neural Networks 2. Fundamentals of Neural Networks 3. Feedforward Neural Networks 4. Neural Networks Architectures 5. Associative Memories 6. Introduction to Fuzzy Sets: Basic Definitions and Relations 7. Introduction to Fuzzy Logic 8. Fuzzy Control and Stability 8A. Advanced Process Control 8B. Fuzzy Logic Application

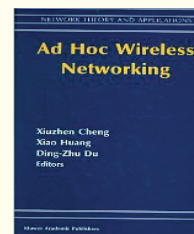
2011 300 pp 978-93-81075-40-1
BSPBSP PB Rs. 250.00

Ad Hoc Wireless Networking

Cheng

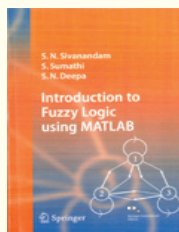
Contents: 1. Introduction 2. Related Work 3. Formulation of Power-aware Routing 4. Online Power-aware Routing with max-min zP_{min} 5. Hierarchical Routing with max-min zP_{min} 6. Distributed Routing with max-min zP_{min}

Rpt. 2011 630 pp 978-81-84898-484
BSPSPR PB *Rs. 775.00



Visit: www.bspbooks.net / www.bspublications.net for latest updates

SPICE / MATLAB



Introduction to Fuzzy Logic using MATLAB



S.N Sivanandam, S. Sumathi and S.N. Deepa

Contents: 1. Introduction, 2. Classical and fuzzy sets, 3. Classical and fuzzy relations, 4. Membership Functions, 5. Defuzzification 6. Fuzzy Rule Based System, 7. Fuzzy Decision Making 8. Applications of Fuzzy Logic 9. Fuzzy Logic Projects with Matlab.

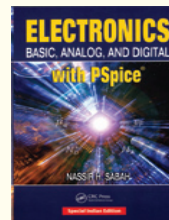
Rpt. 2013 9788132211075 430 pp BSPSPR PB Rs. 995.00

Electronics: Basic, Analog and Digital with PSpice



Nassir H. Sabah

Contents: 1. Basic Diode Circuits, 2. Basic Principles of Semiconductors, 3. PN Junction and Semiconductor Diodes, 4. Semiconductor Fabrication, 5. Field Effect Transistors, 6. Bipolar Junction Transistor, 7. Two-Port Circuits, Amplifiers, and Feedback, 8. Single-Stage Transistor Amplifiers, 9. Multistage and Feedback Amplifiers, 10. Differential and Operational Amplifiers, 11. Power Amplifiers and Switches, 12. Basic Elements of Digital Circuits, 13. Digital Logic Circuit Families



Rpt.2013 729 pp 9781420087079 PB BSPT&F Rs. 950.00



PSpice and MATLAB for Electronics: An Integrated Approach

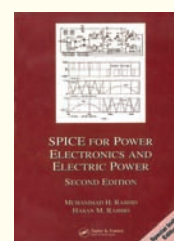
Attia

2009 338 pp 978-0-8493-1263-2
BSPT&F PB *Rs. 595.00

Spice For Power Electronics and Electric Power, 2nd Ed. (With CD)

Muhammad H. Rashid and Hasan M. Rashid

Rpt. 2009 552 pp 978-0-8493-3418-4
BSPT&F PB *Rs. 795.00



GENERAL



Research Methodology and Quantitative Methods

G. Nageswara rao

Contents: 1. Introduction, 2. Research Process, 3. Methods and Materials, 4. Sampling Methods, 5. Scale Construction Methods 6. Elementary Decision Theory, 7. Collection of Data, 8. Data Organization, 9. Measures of Central Tendency and Dispersion, 10. Tests of Hypotheses, 11. Chi-square Distribution, 12. Correlation and Regression, 13. Analysis of Variance 14. Time Series and Index Numbers, 15. Non-Parametric Tests, 16. Elementary Queuing Theory, 17. Multivariate Statistical Methods 18. Report Writing

2011 978-93-81075-56-2 300 pp PB Rs. 250.00

Fundamentals of Intellectual Property for Engineers

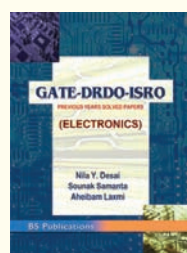
Kompal Bansal and Parikshit Bansal

Contents: 1. Intellectual Property Rights and their usefulness for Engineers, 2. Intellectual Property vs. Physical or conventional Property, 3. Usefulness of Patents for Engineers, 4. Practical aspects of filing a Patent in India and Abroad, 5. Copyright and its usefulness in Engineering, 6. Practical aspects of Copyright Registration and Transfer, 7. Industrial Design Registration and its usefulness in Engineering, 8. Practical aspects of Industrial Design Registration in India and Abroad, 9. Trade Secrets- Importance for Engineers, 10. Trademarks- Importance in Engineering, 11. Trademarks- Importance in Engineering, 12. Legislations and Policy, 13. Digital Innovations and Developments as Knowledge Assets, 14. IP Laws, Cyberlaws and Digital Content Protection, 15. Practical Assignments



2013 978-81-7800-277-4 468 pp PB Rs. 275.00

COMPETITIVE EXAMS



GATE-DRDO-ISRO: Previous Years Solved Papers (ELECTRONICS)

Nila Y. Desai, Sounak Samanta and Aheibam Laxmi

Contents: 1. GATE – 1999 2. GATE – 2000 3. GATE – 2001 4. GATE – 2002 5. GATE – 2003 6. GATE – 2004 7. GATE – 2005 8. GATE – 2006 9. GATE – 2007 10. GATE – 2008 11. GATE – 2009 12. GATE – 2010 13. GATE 2011 14. DRDO – 2008 15. DRDO – 2009 16. ISRO – 2009 17. ISRO – 2010 18. ISRO 2011

2012 758 pp 978-93-81075-23-4 BSPBSP PB Rs. 400.00

COMING SOON

Digital Signal Processing

Jagdeeshwar Reddy

Electromagnetic Waves & Transmission Lines, 2nd Ed.

Jagadeeshwar Reddy

Gate Electronics

R.K. Singh

Contents: 1. Analog Electronics and Electronics Devices 2. Digital Electronics 3. Signal and Systems 4. Control System 5. Networks 6. Communication System 7. Electromagnetic Field Theory 8. Microprocessors 9. Engineering Mathematics

**BS Publications (A Unit of BSP Books Pvt. Ltd.)**

Invites manuscripts from prospective authors to write books in the area of new emerging topics in Engineering, Information Technology, Remote Sensing, Biological Sciences/Biotechnology, Environmental Science, Management Science and other interdisciplinary subject areas.

Also, it invites Books tailored specifically to a syllabus of recognised course of study at colleges and universities level.

We have co-publishing arrangements with following reputed international publishers, who market our books. Books throughout the world.

CRC Press (Taylor & Francis Group) USA and UK

Authors may write to us with their background, brief description about the book with tentative table of contents synopsis and time frame for completion of the book by e-mail to

editorial@bspublishations.net — Engineering & Technology; Management Sciences; Earth & Environmental Sciences

editorial1@bspbooks.net — Pharmaceutical Sciences; Agriculture & Life Sciences

CONTACT OUR NEAREST REPRESENTATIVE FOR ASSISTANCE**NORTH ZONE**

AVADESH KUMAR TIWARI
Territory Sales Manager

09415810938
up@bspbooks.net
uttarakhand@bspbooks.net

delhi@bspbooks.net / punjab@bspbooks.net

WEST ZONE

maharashtra@bspbooks.net/gujarat@bspbooks.net

CENTRAL ZONE

TEERATH PATEL
Territory Sales Manager

09893719561; mp@bspbooks.net

EAST ZONE

KRISHNA PATRO
Sales Executive

09861760260; orissa@bspbooks.net

SOUTH ZONE

V. SRINIVASA RAO
Territory Sales Manager

09849650232; srinivas.v@bspbooks.net

M. HARIPRASAD
Sales Executive

09849539048; aprep@bspbooks.net

S. SUKUMAR

Sales Executive

09976513469; tamilnadu@bspbooks.net

karnataka@bspbooks.net;

Head Office

VASUDEV RAO

Marketing Manager

09701334178; vasudev.rao@bspbooks.net

MADHURESH N. SHAH

Channel Manager-Retail and E-commerce

09885688852; madhuresh.shah@bspbooks.net

NIKUNJESH A. SHAH

Channel Manager-Marketing and Sales

08374105220; nikunjesh.shah@bspbooks.net

Please send your orders / enquiries

Imprints: **BSP** BS Publications



PharmaMed Press

(An imprint of Pharma Book Syndicate)



BSP Books Pvt. Ltd.

4-4-309 / 316, Giriraj Lane, Sultan Bazar,
Koti, Hyderabad - 500 095.

Ph: 040-23445688, 23445605, Fax : 91+40-23445611

e-mail: info@bspbooks.net; info@pharmamedpress.com

Visit our Website

www.bspbooks.net /
www.bspublishations.net