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NOVEMBER 2014

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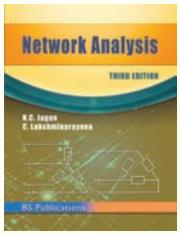
Electrical Engineering Basics



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N. C. Jagan and C. Lakshminarayana

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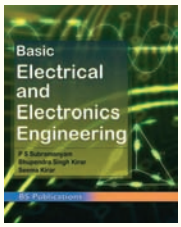

Basic Electrical and Electronics Engineering

P. S. Subramanyam et. al.

Contents: Unit – I: 1. Basics of electrical engineering, **2.** D.C. Circuit analysis using mesh and nodal analysis, **3.** Fundamentals of alternating current, **4.** A.c. Single phase and three phase circuits, **Unit – II: 5.** Magnetic circuits & electromagnetic induction, **6.** Transformers, Unit – III: **7.** D.c. Machines, **8.** A.c machines - i synchronous machines, **9.** A.c. Machines - ii induction motors, **Unit – IV: 10.** Digital electronics, Unit – V: **11.** Electronic components and circuits, **12.** Cathode ray oscilloscope

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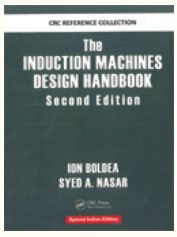

The Induction Machines Design Hand Book, 2nd Ed. REFERENCE

Ion Boldea and Syed A.Nasar

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Rpt. 2013	9781420066685	827 pp
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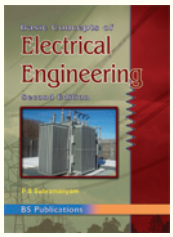

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P. S. Subramanyam

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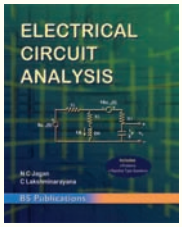

Electrical Circuit Analysis

N C Jagan and C Lakshminarayana

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BSPBSP	PB	Rs. 295.00

Transforms and Applications Handbook REFERENCE

Alexander D. Poularikas

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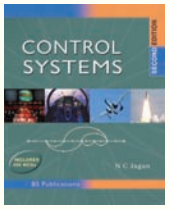

Control Systems, 2nd Ed.

N. C. Jagan

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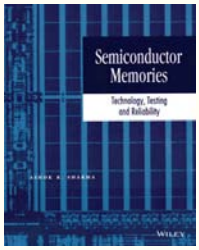

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Ashok K. Sharma

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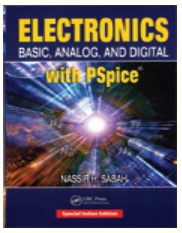

Nassir H. Sabah

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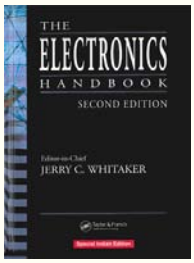

The Electronics Handbook, 2nd Ed

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Jerry C. Whitaker

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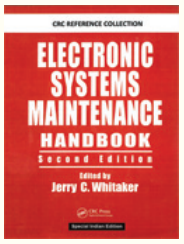

Whitaker

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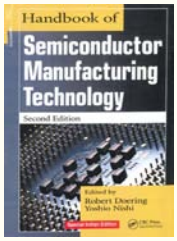

Handbook of Semiconductor Manufacturing Technology, 2nd Ed.

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Robert Doering and Yoshio Nishi

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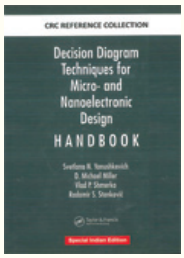
Electronics



Decision Diagram Techniques for Micro- and Nanoelectronic Design Handbook

REFERENCE

Svetlana N. Yanushkevich, D. Michael Miller, Vlad P. Shmerko , Radomir S. Stankovic

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

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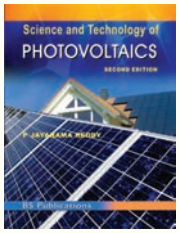
Energy Sources



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Jayarama Reddy P.

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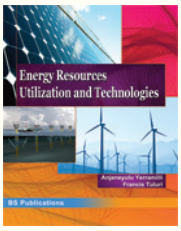

Energy Resources, Utilization and Technologies

Anjaneyulu Yerramilli and Francis Tuluri

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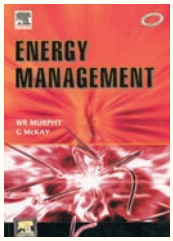

Energy Management

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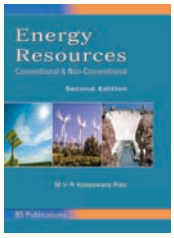

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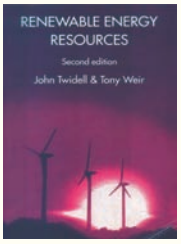

Renewable Energy Resources, 2nd Ed.

John Twidell and Tony Weir

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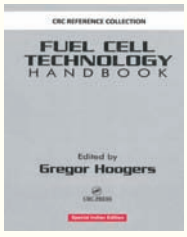

Fuel Cell Technology Handbook

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Gregor Hoogers

Contents: Part 1: Technology 1. Introduction **2.** History **3.** Thermodynamics and Electrochemical Kinetics **4.** Fuel Cell Components and their Impact on Performance **5.** The Fueling Problem: Fuel Cell Systems **6.** Catalysts for the Proton Exchange Membrane Fuel Cell **7.** Prospects of the Direct Methanol Fuel Cell **Part Ii: Applications 8.** Stationary Power Generation **9.** Portable Systems **10.** Automotive Applications **11.** Competing Technologies for Transportation **12.** Fuel Cell Fuel Cycles **13.** Outlook - The Next Five Years

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D. Yogi Goswami and Frank Kreith

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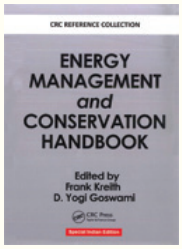

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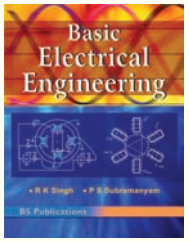

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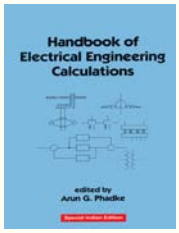

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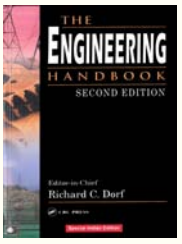

Richard C. Dorf

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Richard C. Dorf

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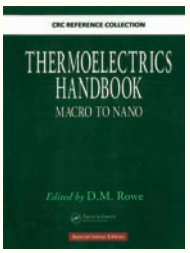

D. M. Rowe

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

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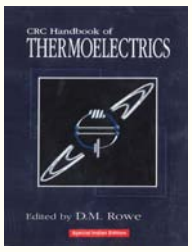

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D.M. Rowe

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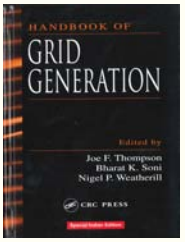

Joe F. Thompson, Bharat K. Soni, Nigel P. Weatherill

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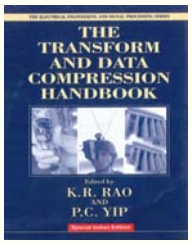
Rpt. 2014	1136 pp	9780849326875	HB	BSPCRC	Rs. 6000.00

Data Communication



The Transform and Data Compression Handbook

REFERENCE

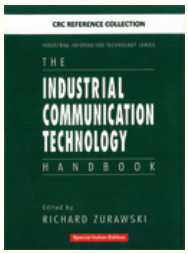
K. R. Rao and P.C. Yip

Contents: 1. The Karhunen-Loeve Transform, **2.** The Discrete Fourier Transform, **3.** Comparametric Transforms for Transmitting Eye Tap Video with Picture Transfer Portocol (PTP), **4.** The Discrete Cosine and Sine Transforms, **5.** Lapped Transforms for Image Compression, **6.** Wavelet Based Image Compression, **7.** Fractal Based Image and Video Compression, **8.** Compression of Wavelet Transform Coefficients

Rpt. 2014	9780849336928	390 pp	BSPCRC	HB	Rs. 4000.00

The Industrial Communication Technology Hand Book

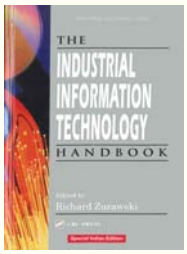
REFERENCE



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	HB	BSPCRC	RS. 5000.00



The Industrial Information Technology: Handbook

REFERENCE

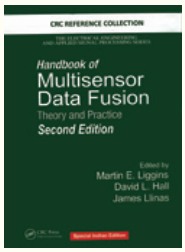
Richard Zurawski

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

Handbook of Multisensor Data Fusion

REFERENCE

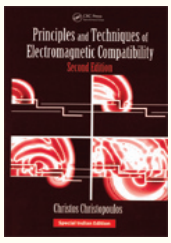


Martin E. Liggins, David L. Hall and James Llinas

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. 2012	872 pp	9781420053081	BSPCRC	HB	Rs. 4250.00

Engineering Electromagnetics



Principles and Techniques of Electromagnetic Compatility, 2nd Ed.

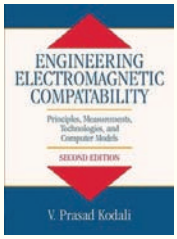
Christos Christopoulos

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, **Part IV:** EMC IN SYSTEMS DESIGN, **15.** EMC and Signal Integrity (SI), **16.** EMC and Wireless Technologies, **17.** EMC and Broadband Technologies, **18.** EMC and Safety **19.** Statistical EMC

Rpt. 2013	513 pp	9780849370359	PB	BSPT&F	Rs. 895.00

Engineering Electromagnetics

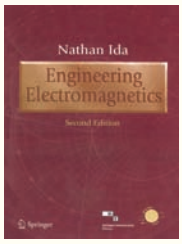
Engineering Electromagnetic Compatibility: Principles, Measurements, Technologies and Computer Models, 2nd Ed



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

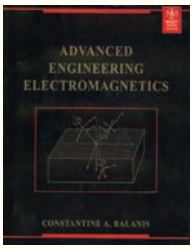
Rpt. 2010 | **425 pp** | **9788126525799** | **BSPJW** | **HB** | **Rs. 1150.00**



Engineering Electromagnetics, 2nd Ed.

Nathan Ida

Rpt. 2008 | **1236 pp** | **9788181282736**
BSPSPR | **PB** | **Rs. 995.00**

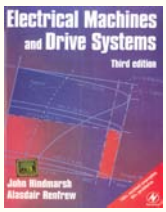


Advanced Engineering Electromagnetics

Constantine A. Balanis

Rpt. 2008 | **981 pp** | **9788126518562**
BSPJ/W | **PB** | **Rs. 1295.00**

Electric Machines / Electrical Drives



Electrical Machines and Drive Systems, 3rd Ed.

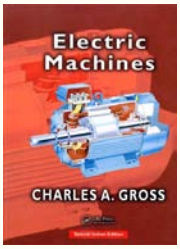
John Hindmarsh and Alasdair Renfrew

Contents: 1. Introduction and review of basic theory **2.** Transformers **3.** D. C. Machines **4.** Induction Machines **5.** Synchronous Machines **6.** Transient Behavior; closed-loop control **7.** Power-electronic/electrical machine drives **8.** Mathematical and computer simulation of machine drives

2012 | **369 pp** | **9789381269398** | **BSPELS** | **PB** | **Rs. 725.00**

Electric Machines

Charles A. Gross



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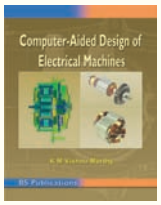
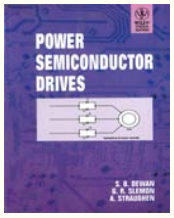


Computer Aided Design of Electrical Machines

Vishnu Murthy

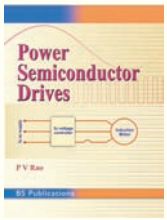
2008 | **324 pp** | **9788178001456**
BSPBSP | **PB** | **Rs. 275.00**



Power Semiconductor Drives

S.B. Dewan, G.R. Slemon and A. Straughen

Rpt. 2011 | **354 pp** | **9788126522569**
BSPJW | **PB** | **Rs. 795.00**



Power Semiconductor Drives

P.Venkateswara Rao

2007 | **311 pp** | **9788178001462**
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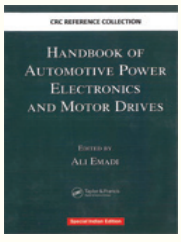
Power Electronics



HandBook of Automotive Power Electronics and Motor Drives

REFERENCE

Ali Emadi

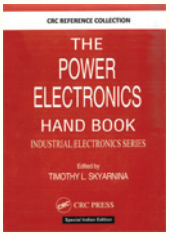
Contents: 1. Automotive power systems **2.** Automotive semiconductor devices, components, and sensors **3.** Automotive power electronic converters **4.** Automotive motor drives **5.** Other automotive applications

Rpt. 2013 | **704 pp** | **9780824723613** | **HB** | **BSPCRC Rs. 3500.00**

The Power Electronics Handbook

REFERENCE

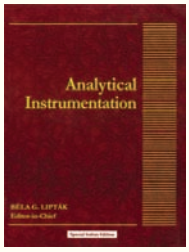
Timothy L. Skvarenina



Contents: 1. Power electronic devices **2.** Power electronic circuits and controls **3.** Applications and system considerations

Rpt. 2013 | **664 pp** | **9780849373367** | **HB**
BSPCRC | **Rs. 3000.00**

Instrumentation



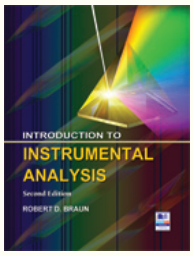
Analytical Instrumentation

Bela G. Liptak

Contents: 1. Analyzer Application and Selection **2.** Analyzer Sampling-Process Samples, **3.** Analyzer Sampling-Stack Particulates, **4.** Air Quality Monitoring, **5.** Biometers, **6.** Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Oxygen Demand (TOD), **7.** Calorimeters, **8.** Carbon Dioxide, **9.** Carbon Monoxide **10.** Chlorine **11.** Chromatographs-Gas, **12.** Chromatographs-Liquid, **13.** Coal Analyzers, **14.** Colorimeters, **15.** Combustibles **16.** Conductivity Analyzers, **17.** Consistency Analyzers, **18.** Corrosion Monitoring, **19.** Differential Vapor Pressure Sensor, **20.** Dioxin Analysis, **21.** Elemental Monitors, **22.** Fiber-Optic Probes, **23.** Fluoride Analyzers, **24.** Hydrocarbon Analyzers **25.** Hydrogen Sulfide, **26.** Infrared Analyzers, **27.** Non-Selective Electrodes, **28.** Mass Spectrometers, **29.** Mercury in Air **30.** Mercury in water, **31.** Moisture in Air: Humidity and Dew point, **32.** Moisture in Gases and Liquids, **33.** Moisture in Solids, **34.** Molecular Weight, **35.** Nitrate, Ammonia, and total Nitrogen, **36.** Nitrogen oxide Analyzers, **37.** Odor Detection, **38.** Oil in or on Water **39.** Oxidation-Reduction Potential (ORP), **40.** Oxygen in gases, **41.** Oxygen in liquids (dissolved oxygen), **42.** Ozone in Gas, **43.** Ozone in water, **44.** Particulates, Opacity, Dust, and Smoke, **45.** Particle size and Distribution Monitors, **46.** pH measurement **47.** Phosphorus Analyzer **48.** Physical properties analyzers-ASTM methods, **49.** Refractometers, **50.** Streaming current on particle charge analyzer, **51.** Sulfur-in-oil Analyzers, **52.** Sulfur oxide Analyzers, **53.** Thermal Conductivity detectors, **54.** Total Carbon Analyzers, **55.** Toxic Gas Monitoring, **56.** Turbudity, Sludge, and Suspended solids **57.** Ultraviolet and Visible Analysis, **58.** Viscometers-Application and Selection, **59.** Viscometers-Laboratory, **60.** Viscometers-Industrial, **61.** Voltametric, Amperometric, and other Electrochemical Analyzers, **62.** Water Quality Monitoring, **63.** Wet-Chemistry and Analyzers

2012	0801983975	471 pp	BSPT&F	PB	Rs. 1395.00

Introduction to Instrumental Analysis, 2nd Ed.



Robert D. Braun

Contents: 1. Introduction to Chemical Instrumental Analysis, **2.** Simple DC and AC Electric Circuits, **3.** Electronic Circuits, **4.** Operational Amplifiers, Logic Devices, and Computers, **5.** Introduction to Spectral Methods of Analysis, **6.** Atomic Absorption Spectrophotometry, **7.** Flame Emission and Atomic Emission, **8.** Atomic Fluorescence, Resonant Ionization, and Laser-Enhanced Ionization, **9.** Ultraviolet-Visible Spectroscopy of Polyatomic Species **10.** Chemiluminescence and Electrochemiluminescence, **11.** Fluorescence and Phosphorescence, **12.** Infrared Spectrophotometry, **13.** Photoacoustic Spectroscopy, **14.** Radiative Scattering, **15.** Refractometry **16.** Nuclear Magnetic Resonance Spectroscopy, **17.** Electron Spin Resonance Spectrometry, **18.** X-Ray Methods, **19.** Electron Spectroscopy, **20.** Radiochemical Methods, **21.** Mass Spectrometry, **22.** Potentiometry, **23.** Nonpotentiometric Electroanalysis, **24.** Introduction to Chromatography, **25.** Liquid Chromatography, **26.** Gas Chromatography, **27.** Thermal Analysis, **28.** Automated Analysis

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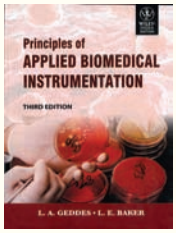


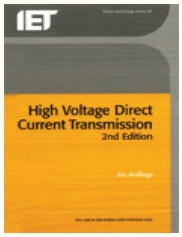
Principles of Applied Biomedical Instrumentation

L. A. Geddes, L. E. Baker

Contents: 1. Biomedical Instruments and the Measurement of Physiological Events **2.** Resistive Transducers **3.** Inductive Transducers **4.** Capacitive Transducers **5.** Photoelectric Transducers **6.** Piezoelectric Devices **7.** Thermoelectric Devices **8.** Chemical Transducers **9.** Electrodes **10.** Stimulators and Stimulation **11.** Detection of physiological events by Impedance **12.** The Bioelectric Events **13.** Radiant Energy Devices **14.** Ventilation and ventilators **15.** Anesthesia and anesthesia equipment **16.** Criteria for the faithful reproduction of an event

Rpt.2008	9788126518074	961 pp	BSPJ/W	PB	Rs. 1150.00

High Voltage Engineering



High Voltage Direct Current Transmission, 2nd Ed.

Jos Arrillaga

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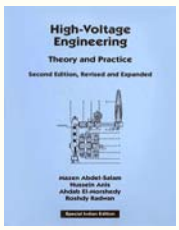

High Voltage Engineering: Theory and Practice, 2nd Ed.

Abdel Salam

Contents: 1. Introduction **Part -I 2.** Electric Fields **3.** Ionization and Deionization Processes in Gases **4.** Electrical Breakdown of GASES **5.** The Corona Discharge **6.** The Arc Discharge **7.** Insulating Liquids **8.** Solid Insulating Materials **Part - II 9.** High-Voltage Busbars **10.** Gas-Insulated Switchgear **11.** Circuit Breaking **12.** High-Voltage Cables **13.** Grounding Systems **14.** Over-voltages on Power Systems **15.** Insulation Coordination **16.** High-Voltage Generation **17.** High-Voltage Measurements **Part - III 18.** Testing Techniques **19.** Applications of High-Voltage Engineering in Industry **20.** Safety and Electrostatic Hazards

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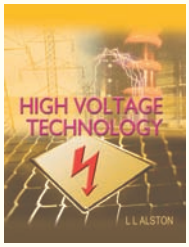
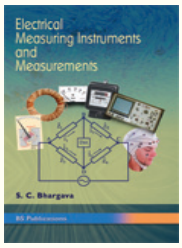


High Voltage Technology

L.L. Alston

Rpt. 2009	408 pp
9780195686869	BSPOUP
HB	Rs. 1850.00

Electrical Measurements / Instruments

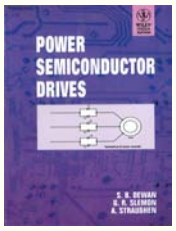


Electrical Measuring Instruments and Measurements

S.C. Bhargava

Contents: 1. Units, Dimensions and Standards, **2.** Magnetism, Electricity and Electromagnetism, **3.** Electrical Circuit Analysis, **4.** Visual Display and Analyses, **5.** Measuring Instruments, **6.** Extension of Instruments Range: Current and Potential Transformers, **7.** Measurement of Power, **8.** Measurement of Energy, **9.** Potentiometers, **10.** Measurement of Resistance, **11.** AC and DC Bridges and Bridge Methods, **12.** Magnetic Measurements, **13.** Measurement of Non-electrical Quantities

2013	9789381075722	885 pp	BSPBSP	PB	Rs. 650.00



Power Semiconductor Drives

S.B. Dewan, G.R. Slemon and A. Straughen

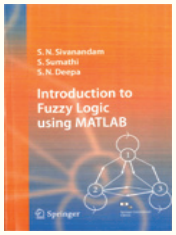
Rpt. 2009	354 pp	9788126522569
BSPJW	PB	Rs. 795.00

Power Semiconductor Drives

P.Venkateswara Rao

2007	311 pp	9788178001462
BSPBSP	PB	Rs. 295.00

Neural Networks



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.

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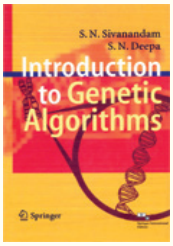
Introduction to Genetic Algorithms



S.N. Sivanandam and S.N. Deepa

Contents: 1. Evolutionary Computation, **2.** Genetic Algorithms, **3.** Terminologies and Operators of GA, **4.** Advanced Operators and Techniques in Genetic Algorithm, **5.** Classification of Genetic Algorithm, **6.** Genetic Programming, **7.** Genetic Algorithm Optimization Problems, **8.** Genetic Algorithm Implementation Using Matlab, **9.** Genetic Algorithm Optimization in C/C++, **10.** Applications of Genetic Algorithms, **11.** Introduction to Particle Swarm Optimization and Ant Colony Optimization

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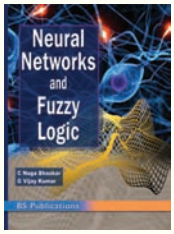

Neural Networks and Fuzzy Logic

C. Naga Bhaskar and G Vijay Kumar

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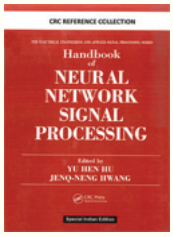
2011	300 pp	9789381075401	BSPBSP	PB	Rs. 250.00

Handbook of Neural Network Signal Processing

REFERENCE



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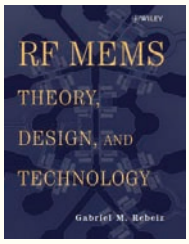

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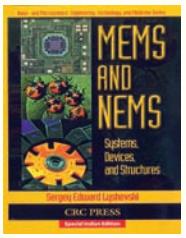

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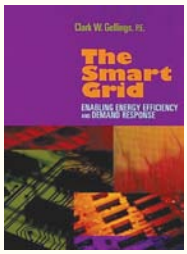

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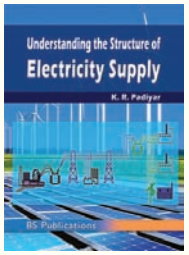

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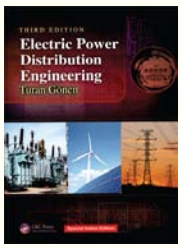

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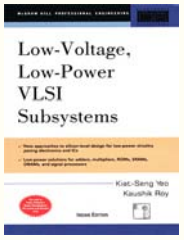

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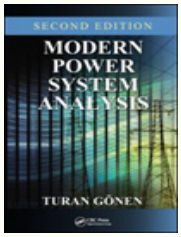

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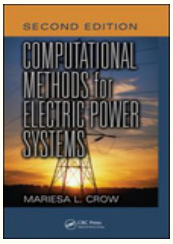

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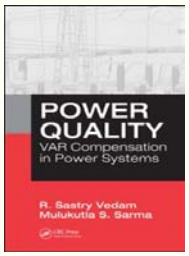

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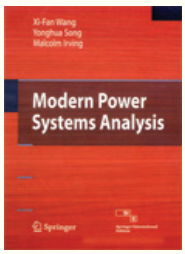

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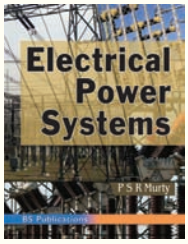

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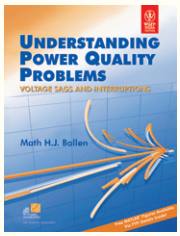

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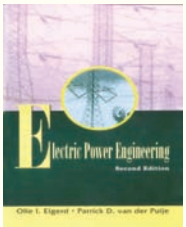

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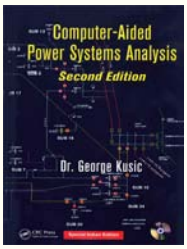

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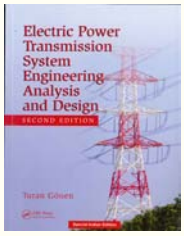

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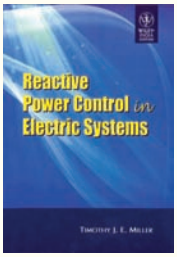

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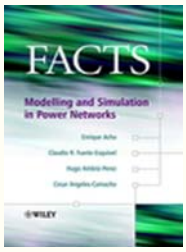

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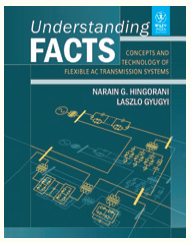

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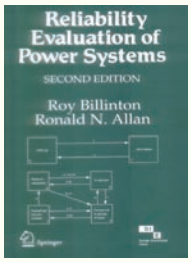

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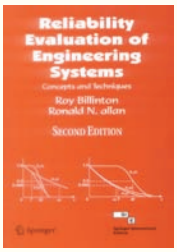

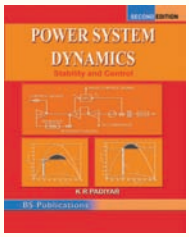

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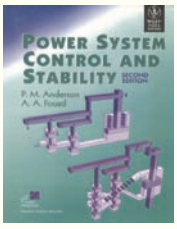

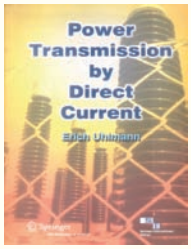

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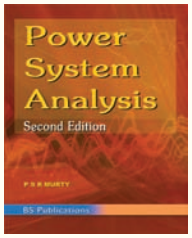

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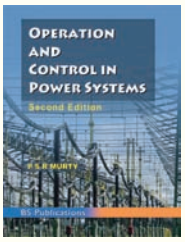

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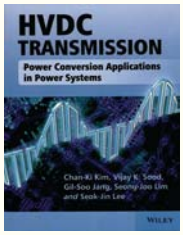

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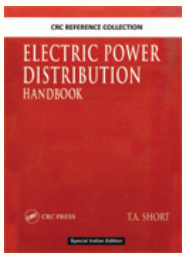

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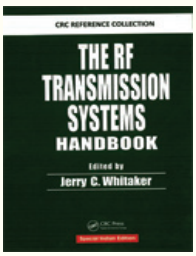

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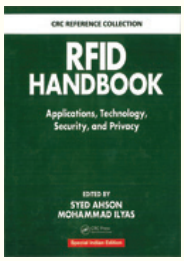

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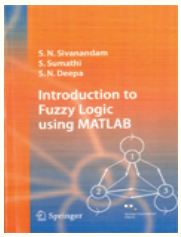

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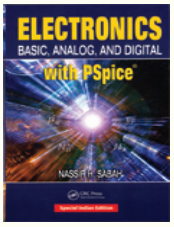

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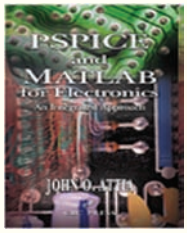

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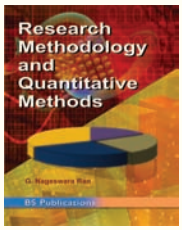

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