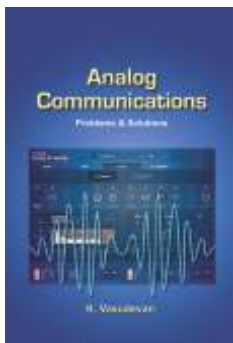


Electromagnetic Theory

T. Jayanthi
C.T. Manikandan
M. Arun

Contents: UNIT 1 : Electrostatics I, UNIT 2: Electrostatics II, UNIT 3: Magnetostatics, UNIT 4: Electrodynamical Fields, UNIT 5: Electromagnetic Waves, Model Question Papers.

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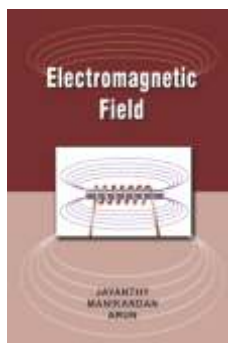


Analog Communications Problems & Solutions

K. Vasudevan

Contents: Dedication, Preface, Notation, 1 Signals and Systems 2 Random Variables & Random Processes 3 Amplitude Modulation 4 Frequency Modulation 5 Noise in Analog Modulation 6 Pulse Code Modulation 7 Signaling Through AWGN Channel

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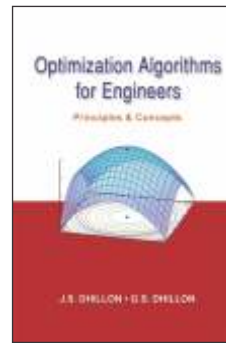


Electromagnetic Field

Jayanthi
Manikandan
Arun

Contents: UNIT 1 Static Electric Field. UNIT 2 Conductor and Dielectrics. UNIT 3 Static Magnetic Fields. UNIT 4 Magnetic Forces and Materials. UNIT 5 Time Varying Fields of Maxwells Equation.

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Optimization Algorithms for Engineers Principles & Concepts

J.S. Dhillon
G.S. Dhillon

Contents: 1. Introduction 2. Unconstrained Optimization: Gradient Methods 3. Unconstrained Optimization: Search Methods 4. Metaheuristic Optimization 5. Constrained Optimization 6. Multiobjective Optimization 7. Additional Topics of Optimization, Concluding Note, Review Questions, Practice Problems, Bibliography

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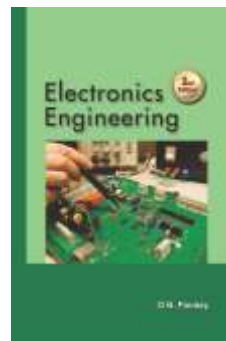


Basic Electronics Problems & Solutions

K. Vasudevan

Contents: Notation, List of Symbols, 1 DC Circuit Analysis 2 RL and RC Transients 3 AC Circuits – Steady State Analysis 4 Resonance, Bode Plots and 2-port Networks 5 Diode Circuits 6 Bipolar Junction Transistors 7 Op Amp Circuits and Oscillators 8 Combinational Circuits 9 Sequential Circuits, Appendix: Two-Port Networks, Bibliography, Index

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Electronics Engineering 2/Ed

O.N. Pandey

Contents: 1. Basics of Electronics, 2. Semiconductor Diodes, 3. Bipolar Junction Transistor (BJT), 4. Field Effect Transistor (FET), 5. Operational Amplifier (OP-AMP), 6. Switching Theory and Logic Design (STLD), 7. Electronics Instruments, 8. PSPICE

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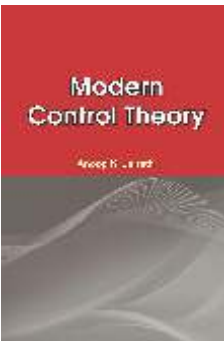
Advanced Digital System Design

A Practical Guide to Verilog Based FPGA and ASIC Implementation

Shirshendu Roy

Contents: 1 Binary Number System 2 Basics of Verilog HDL 3 Basic Combinational Circuits 4 Basic Sequential Circuits 5 Memory Design 6 Finite State Machines 7 Design of Adder Circuits 8 Design of Multiplier Circuits 9 Division of Modulus Operation 10 Square Root and its Reciprocal 11 CORDIC Algorithm 12 Floating Point Architectures 13 Timing Analysis 14 Digital System Implementation 15 Low Power Digital System Design 16 Digital System Design Examples, Abbreviations, References, Index

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Modern Control Theory

Anoop K. Jairath

Contents: 1. Introduction. 2. Matrices. 3. Laplace Transform. 4. MATLAB Basics. 5. Control System-Basic Theory. 6. State Space Concepts and Analysis of State Equations. 7. State Space modeling. 8. Controllability and Observability. 9. State feedback Design. 10. State Estimation.

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Basic System Analysis

S. Palani

Contents: 1. Representation of Signals and Systems 2. Fourier Series Analysis of Continuous Time Signals 3. Fourier Transform Analysis of Continuous Time Signals 4. The Laplace Transform Method for the Analysis of Continuous Time Signals and Systems 5. The z-transform Analysis of Discrete Time Signals and Systems 6. State Space Modelling and Analysis, Index

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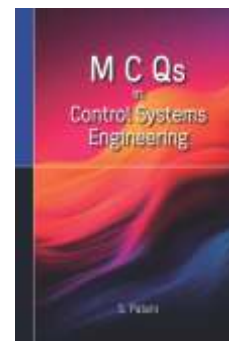
Automatic Control Systems

Including MATLAB 2/Ed

S. Palani

Contents: 1 Control Systems Modelling and their Representation, 2 Time Response Analysis, 3 Frequency Response Analysis, 4 Stability Analysis of Linear Control System, 5 Root Locus Method for Analysis, 6 Design of Compensators, 7 State Space Modelling and Analysis

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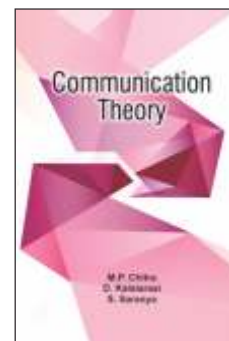


MCQs in Control Systems Engineering

S. Palani

Contents: 1 System Transfer Function 2 Time Response Analysis 3 Frequency Response Analysis 4 Stability Analysis of Linear System 5 Root Locus Method of Analysis 6 Design of Compensators 7 State Space Analysis

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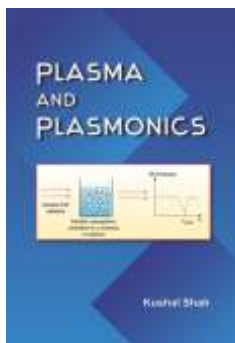


Communication Theory

M.P. Chitra
D. Kalaiarasi
S. Saranya

Contents: Preface, Acknowledgement, Introduction, Unit 1-Amplitude Modulation, Unit 2-Angle Modulation, Unit 3-Random Process, Unit 4-Noise Characterisation, Unit 5-Sampling and Quantization

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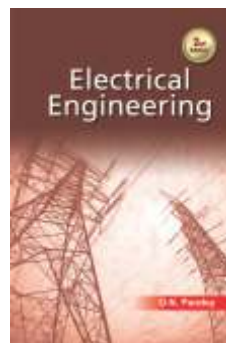


Plasma and Plasmonics

Kushal Shah

Contents: 1. Preface, 1. Maxwell's Equations 2. Electromagnetic Properties of Metals 3. Plasma Kinetic Theory 4 Plasma Fluid Theory 5. Surface Plasmon Polaritons (SPP) 6 Spool Surface Plasmons (SSP) 7 Advanced Topics in Plasmonics 8. Mathematical Foundations 9. Numerical Methods for Electromagnetics, Appendix: Legendre Polynomials, Bibliography

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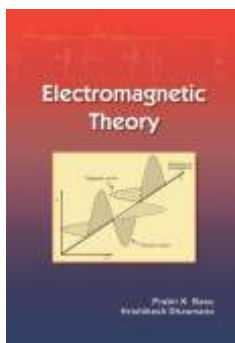
Electrical Engineering

2/Ed

O.N. Pandey

Contents: 1. Circuit Concepts and Analysis 2. Network Theorems 3. Steady-State Analysis of AC Circuits 4. Three Phase AC Circuits 5. Measuring Instruments 6. Earthing and Electrical Safety 7. Magnetic Circuits 8. Single Phase 9. DC Machines 10. Three Phase Induction Motor 11. Single Phase Induction Motor 12. Three Phase Synchronous Machines

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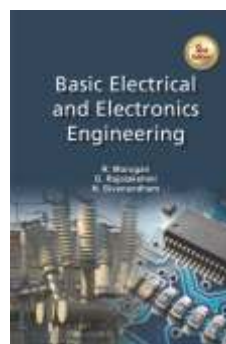


Electromagnetic Theory

Prabir K Basu
Hrishikesh Dhasmana

Contents: 1. Electromagnetic Theory Fundamentals 2. Static Electric Fields 3. Teady Magnetic Fields 4. Time Varying Fields and Maxwell's Equations 5. Reflection and Refraction of E.M.Waves 6. Transmission Line 7. Introduction to Smith Chart, Numerical Problems, Sample Questions, Index

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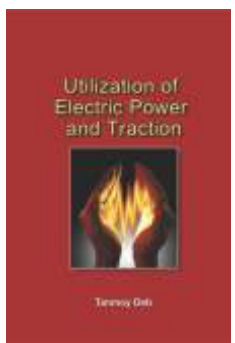
Basic Electrical and Electronics Engineering

2/Ed

R Murugan
G Rajalakshmi
N Sivanandham

Contents: 1. Electrical Circuits And Measurements 2. Electrical Mechanics 3. Semiconductor Devices And Applications 4. Digital Electronics 5. Fundamentals Of Communication Engineering.

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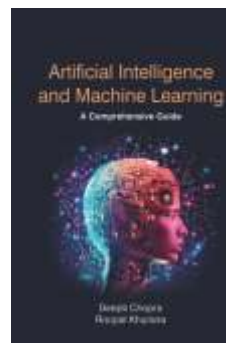


Utilization of Electric Power and Traction

Tanmoy Deb

Contents: 1. Electric Heating 2. Electric Welding 3. Illumination 4. Electrolytic Process 5. Refrigeration and Air Conditioning 6. Electric Drive 7. Electric Traction 8. Economic Aspects of Utilization

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Artificial Intelligence and Machine Learning

A Comprehensive Guide

Deepti Chopra
Roopal Khurana

Contents: 1. Foundations of Artificial Intelligence and Machine Learning 2. Machine Learning Algorithms and Techniques 3. AI Applications in Real World Scenarios 4. Ethical Considerations and Challenges 5. The Future of AI and ML 6. Deep Learning and Neural Networks 7. Reinforcement Learning and Robotics 8. Time Series Analysis and Forecasting 9. Explainability and Interpretability in AI 10. AI and ML for Business and Decision Making 11. AI in Social Sciences and Humanities 12. Challenges and Limitations of AI and ML 13. The Road Ahead Advances and Future Directions

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Books by Dr. Harish Parthasarathy

About the Author

The author completed his B.Tech in Electrical Engineering from IIT Kanpur in 1990 and Ph.D. in 1994, both in Electrical Engineering. He worked as Assistant Professor during 1994–1997 at Indian Institute of Technology Bombay in Electrical Engineering Department and during 1997–1998 at Indian Institute of Technology Kanpur in Electrical Engineering Department. He worked as Application Engineer at ST Micro Electronics, Delhi, during 1998–2000 before joining Netaji Subhas Institute of Technology, New Delhi, in 2000, where he worked as Assistant Professor till June 2007. Since July 2007, he has been working as Professor in the Division of Electronics and Communication Engineering at Netaji Subhas Institute of Technology, New Delhi. His teaching and research interests are in the areas of circuits and systems, signal processing, stochastic nonlinear filters, electromagnetics and group representations and he has published 30 papers in various international journals of repute.

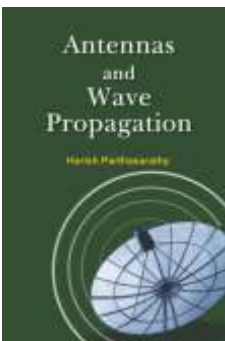


Advanced Engineering Physics

H. Parthasarathy

Contents: 1. Mechanics 2. Fluid Dynamics 3. ElectroMagnetics 4. Relativity 5. Quantum Mechanics 6. Circuit Theory 7. Optics 8. Solid State Physics 9. Digital Signal Processing 10. Probability 11. Statistical Physics, *Bibliography, Index.*

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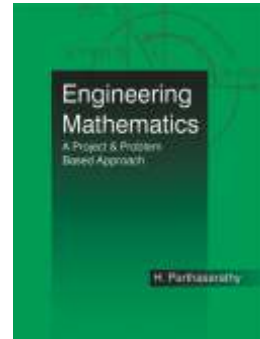


Antennas and Wave Propagation

Harish Parthasarathy

Contents: 1. Part I: Antennas and wave propagation, basic theory 1: The Maxwell equations in the presence of magnetic charges and magnetic currents, 2: Antenna parameters, 3: Wire antennas 4: Surface and aperture antennas 5: Antenna arrays 6: Signal processing algorithms for antenna arrays 7: Surface shape estimation from the reflected field pattern 8: The general theory of wave propagation 9: The effect of electromagnetic fields on atoms 10: The effect of gravitational fields on global positioning systems Part II: Transmission lines and waveguides 1: Computing the distributed parameters of a transmission line using the Maxwell theory 2: The basic linear transmission line equations and their frequency domain analysis 3: Time domain analysis of a transmission line 4: Stub matching for transmission lines 5: Quantum mechanical methods for estimating the distributed parameters of a transmission line 6: Coupled Transmission lines 7: Transmission lines with random input 8: Transmission lines with randomly fluctuating distributed parameters 9: Numerical simulation of transmission lines by spatio-temporal discretization 10: Analysis of transmission lines with non-linear and memory effects taken into account 11: The basic theory of rectangular homogeneous waveguides Part III: DSP tools applied to

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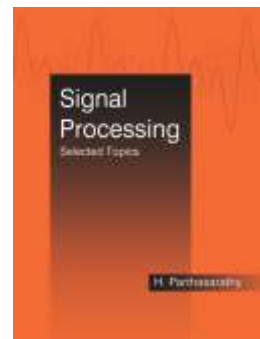


Engineering Mathematics A Project & Problem Based Approach

H. Parthasarathy

Contents: Acknowledgements, Preface, 1 The Derivative and the Integral, 2 Ordinary Differential equations, 3 Solved Examples, 4 Solved examples, 5 Linear algebra and matrix theory, 6 Fourier series and transforms, 7 Partial differential equations, 8 Functions of a complex variable, 9 Laplace transforms, 10 Vector algebra, 11 Vector calculus, 12 Probability theory and statistics, 13 Riemannian geometry and tensor calculus, 14 Selected topics in Group theory with applications, 15 Perturbation theory for differential equations, 16 Calculus of variations, 17 Stochastic filtering theory, 18 Generalized functions, 19 Simulation of analog systems on the digital computer, 20 Basic Circuit and System theory, 21 MATLAB Exercises, 22 Appendix: Reprints of some technical reports from DSP lab at NSIT, 23 Miscellaneous solved and unsolved problems in engineering mathematics, *Bibliography, Index.*

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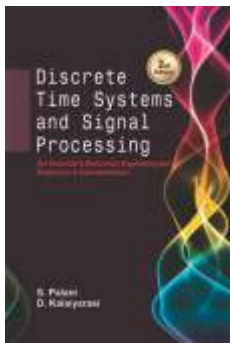


Signal Processing Selected Topics

H. Parthasarathy

Contents: 1. Applications of Group Representations to Image Processing 2. Quantum Signal Processing 3. Large Deviations 4. Stochastic Problems 5. Stochastic Problems in General Relativity 6. Projects for computer simulation

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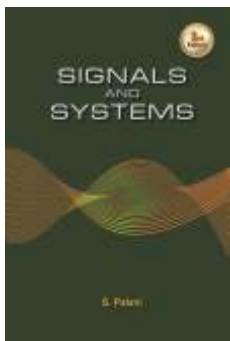


Discrete Time Systems and Signal Processing (EEEEI) 2/Ed

S Palani
D Kalaiyarasi

Contents: 1. Representation of Discrete Signals and Systems 2. The z-Transform Analysis of Discrete Time Systems 3. Discrete Fourier Transform and Computation 4. Design of IIR Digital Filters 5. Design of FIR Digital Filters 6. Digital Signal Processor

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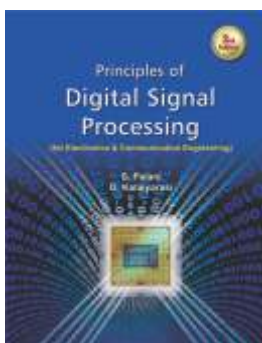


Signals and Systems 2/Ed

S Palani

Contents: 1. Representation of Signals 2. Continuous and Discrete Time Systems 3. Time Domain Analysis of Continuous and Discrete Time Systems 4. Fourier Series Analysis of Continuous Time Signals 5. Fourier Series Analysis of Discrete Time Signals 6. Fourier Transform Analysis of Continuous Time Signals 7. Fourier Transform Analysis of Discrete Time Signals and Systems – DTFT, DFT and FFT 8. The Laplace Transform Method for the Analysis of Continuous Time Signals and Systems 9. The z-transform Analysis of Discrete Time Signal and Systems 10. Sampling.

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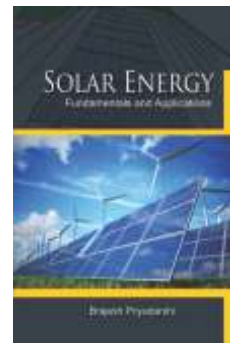


Principles of Digital Signal Processing (for Electronics & Communication Engineering) 2/Ed

S Palani
D Kalaiyarasi

Contents: 1. Representation of Discrete Signals and Systems 2. Discrete and Fast Fourier Transforms (DFT and FFT) 3. Design of IIR Digital Filters 4. Finite Impulse Response (FIR) Filter Design 5. Finite Word Length Effects 6. Multi-rate Digital Signal Processing

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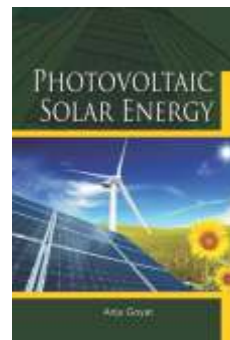


Solar Energy Fundamentals and Applications

Brajesh Priyadarshi

Contents: 1. Preface 1. Introduction to Electricity and Solar Electric System 2. Solar Radiation 3. Solar Thermal Collector 4. Solar Air Heaters 5. Concentrating Collectors 6. Solar Pond 7. Thermal Energy Storage 8. PV Systems and Applications 9. PV Deployment in Distribution Grids 10. Other Methods for Solar Energy Utilisation 11. Economic Analysis, Bibliography

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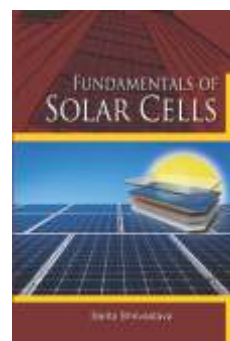


Photovoltaic Solar Energy

Anju Goyat

Contents: 1. Basic Concepts of Solar Energy 2. Solar Insolation 3. Properties of Semiconductors 4. Application of the Transport Equation 5. Junctions 6. The Calculation of Solar Efficiency 7. Silicon Solar Cells 8. Heterojunction and Heteroface Structure Cells 9. Polycrystalline and Thin Films for Solar Cells 10. Other Photovoltaic Cells 11. Concentrator Concentrator Systems and Photoelectrochemical Cells 12. Space Technologies 13. Solar inverter 14. Solar Grid and PV Development in Distribution 15. Polycrystalline and Thin Films for Solar Cells

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Fundamentals of Solar Cells

Sarita Shrivastava

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9788793102163	4G Mobile and Wireless Communications Technologies	Kyriazakos	3995	2014	HB	River Pub
9788793102095	Adaptive Phy-Mac Design For Broadband Wireless Systems	Prasad	3995	2014	HB	River Pub
9788126540259	Adaptive Radar Signal Processing, Indian Reprint	Haykin	3995	2013	HB	Wiley India
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9781420065862	Electric Power System Applications of Optimization, 2/Ed	Momoh	4995	2015	HB	CRC Pod
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9789382291107	Superlattice to Nanoelectronics, 2/Ed	Tsu	2995	2013	HB	Elsevier Ex
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Research and Publication Ethics

Santosh Kumar Yadav

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Research Methodology with Scientific Writing

2/Ed

C. George Thomas

Contents: 1. Research: The search for knowledge 2. Philosophy 3. Approaches to research 4. Experimental research 5. Planning and writing a research proposal 6. Collection and analysis of data 7. Information sources 8. The literature review 9. Important of reasoning in research 10. Preparation of thesis and research papers 11. Tables and illustration 12. References: How to cite and list correctly 13. Scientific writing: Improve your writing skills 14. Meetings, presentations, and lectures 15. Ethics and related issues in research.

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Scientific Research Primer

K. Mustafa

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Good Practices and Ethics in Research and Publication

Dilip Datta

About the Book: This is a Textbook for the compulsory Course on Research and Publication Ethics approved by UGC for Ph.D. students.

The following are the salient features of the book:

- Introduces the general ethics to be respected in research and publication
- Suggests good practices to be followed in research and publication
- Warns about identification of publication misconducts and ensuing actions
- Creates awareness about open access publishing
- Creates awareness against predatory publishing
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