

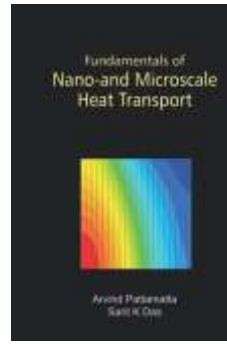


Fundamentals of Turbulence and its modeling

Sawan S. Sinha

Contents: 1 Tensors 2 Description of fluid kinematics 3 Nature of turbulent flows 4 Random variables and their characterization 5 Governing equations of the mean flow field 6 Turbulence near a solid wall 7 Understanding multiplicity of length-scales in turbulent flows 8 Turbulence modeling 9 Scale-resolving simulations of turbulent flows

9788197240362 • 216 (Hb) • 2025 • ₹ 995.00

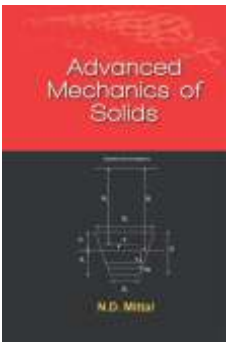


Fundamentals of Nano- and Microscale Heat Transport

Arvind Pattamatta Sarit K Das

Contents: 1 Introduction 2 Fundamentals of Quantum Mechanics 3 Fundamentals of Solid-State Physics 4 Fundamentals of Statistical Thermodynamics 5 Nanoscale Transport Processes 6 Microscale and Nanoscale Transport in Single-Phase Fluids 7 Phase Change in Minichannels and Microchannels 8 Nanofluids 9 Measurement Techniques at Microscales and Nanoscales, References

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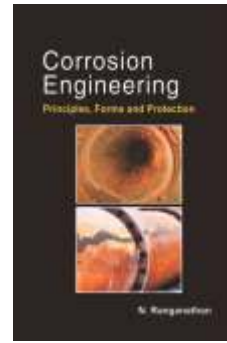


Advanced Mechanics of Solids

N.D. Mittal

Contents: 1 Principles of Elasticity 2 Stresses and Strains in Three Dimensions 3 Strain Energy Principles 4 Theories of Elastic Failures 5 Fixed Beams Chapter 6 Continuous Beams 7 Thin and Thick Pressure Vessels 8 Rotating Rings, Discs, and Cylinders 9 Unsymmetrical Bending 10 Curved Beams 11 Columns and Struts 12 Stress Concentration 13 Fatigue 14 Creep 15 Mechanics of Composite Materials

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Corrosion Engineering Principles, Forms and Protection

N. Ranganathan

Contents: 1 Importance of Corrosion 2 Forms of Corrosion 3 Fundamentals of Corrosion 4 Electrochemistry of Corrosion 5 Thermodynamics of Corrosion 6 Pourbaix Diagrams 7 Kinetics of Corrosion Polarization 8 Kinetics of Corrosion Mixed Potential Theory 9 Passivity

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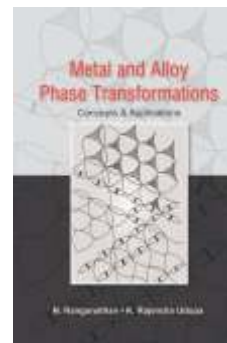


Green Building Technologies

Shailendra K Shukla

Contents: 1.Green Buildings 2. Smart Building Materials and Component 3. Building Integrated Energy Storage System 4. Building Integrated Greenery System 5. Active and Passive Exploitation of Renewable Energy in Buildings 6. Well-being, Thermal Comfort, and Environmental Livability 7. Sustainable Design and Operational Parameters

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Metal and Alloy Phase Transformations Concepts & Applications

N Ranganathan K Rajendra Udupa

Contents: 1. Introduction to Phase Transformation 2. Stability of Phases - Thermodynamics 3. Evolution of Phase Diagrams of Binary Systems 4. Phase Transformation Mechanism-Nucleation 5. Phase Transformation Kinetics- Diffusion 6. Growth Kinetics 7. Overall Transformation Kinetics 8. Solidification 9. Diffusional Transformation- Discontinuous Precipitation 10. Spinodal Decomposition 11. Diffusional Transformation: Continuous Precipitation 12. Precipitation Hardening in Al-Cu Alloys and Other Alloys 13. Precipitation Free Zones and Particle Coarsening 14. Plastic Deformation and Accompanying Relaxation Mechanisms 15. Diffusionless Transformations- Massive and Martensitic Transformation 16. Shape Memory Alloys 17. Ordering Transformation in Alloys References

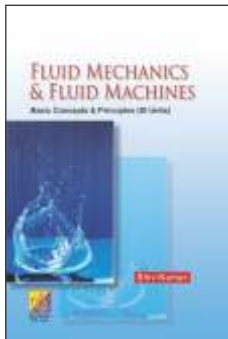
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Computational Methods in Engineering
2/Ed

S.P. Venkateshan
Prasanna Swaminathan

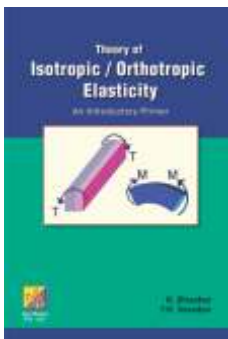
Contents: Preface, Acknowledgments, 1 Preliminaries, 2 Solution of linear equations, 3 Computation of eigenvalues, 4 Solution of algebraic
9789389212822 • 874 (Hb) • 2023 • ₹ 2995.00



Fluid Mechanics & Fluid Machines
Basic Concepts & Principles (SI Units)

Shiv Kumar

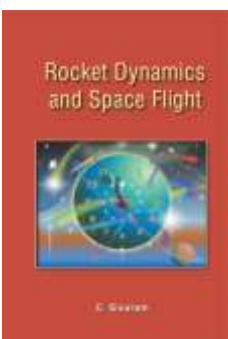
Contents: 1. Properties of Fluids, 2. Pressure and its Measurement, 3. Hydrostatic Forces on Surface, 4. Flow of Fluids, 5. Notches and Weirs,
9789389212143 • 550 (Hb) • 2023 (R) • ₹ 1995.00



Theory of Isotropic/Orthotropic Elasticity
An Introductory Primer

K. Bhaskar
T.K. Varadan

Contents: Preface 1. Introduction and Mathematical Framework 2. Plane Problems in Cartesian Coordinates 3. Plane Problems in Polar
9789380156200 • 246 (Hb) • 2023 (R) • ₹ 995.00



Rocket Dynamics and Space Flight

C. Sivaram

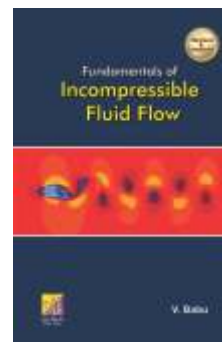
Contents: Preface 1. Brief historical Introduction 2. Basics of Rocket dynamics 3. Lunar and Near Space Flight 4. Interplanetary Flight
9789394883659 • 250 (Hb) • 2023 • ₹ 995.00



Mechanical Measurements
2/Ed

S.P. Venkateshan

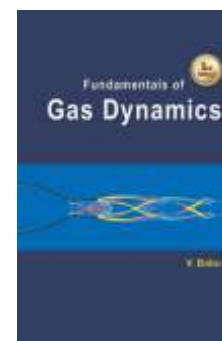
Contents: Preface, Acknowledge, Nomenclature, 1. Measurements, Error 2. Measurements of Temperature, Heat Flux and Heat Transfer Coefficient 3. Measurement of Pressure, Fluid velocity, Volume flow rate, stagnation and Bulk mean temperature 4. Thermo-physical properties, Radiation properties of surface, Gas Concentration, force/Acceleration, torque and power 5. Data Manipulation and Examples from laboratory practice
9789394883642 • 544 (Hb) • 2023 • ₹ 1995.00



Fundamentals of Incompressible Fluid Flow
Revised & Updated

V. Babu

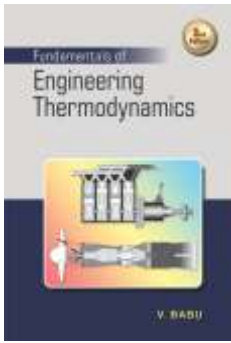
Contents: 1. Introduction, 2. Basic Concepts in Incompressible Flows, 3. The Incompressible Navier-Stokes Equations, 4. Solutions to the Incompressible Navier-Stokes Equations, 5. Potential Flows, 6. Laminar Boundary Layer Theory, 7. Analytical Solutions to the Incompressible Navier-Stokes Equations, 8. Turbulent Flows, 9. Turbulent Internal Flows, 10. Turbulent External Flows
9789386761934 • 276 (Hb) • 2023 • ₹ 995.00



Fundamentals of Gas Dynamics
2/Ed

V. Babu

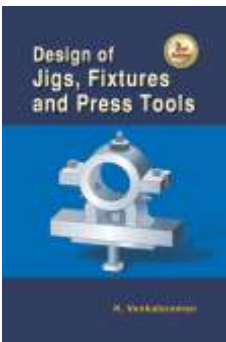
Contents: Foreword • Preface • Introduction • One Dimensional Flows – Basics • Normal Shock Waves • Flow with Heat Addition- Rayleigh Flow • Flow with Friction - Fanno Flow • Quasi One Dimensional Flows • Oblique Shock Waves • Prandtl Meyer Flow • Suggested Reading • Index.
9789384726836 • 242 (Hb) • 2023 (R) • ₹ 995.00



Fundamentals of Engineering Thermodynamics 2/Ed

V. Babu IIT, Madras

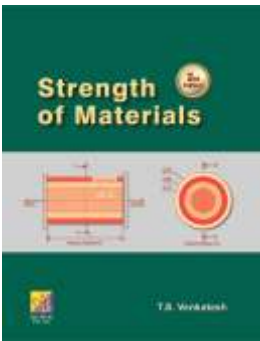
Contents: 1 Introduction 2 Basic Concepts 3 Work and Heat 4 First Law of Thermodynamics 5 Properties of Pure Substances 6 First Law Analysis 9789389212105 • 440 (Hb) • 2023 • ₹ 1495.00



Design of Jigs & Fixtures and Press Tools 2/Ed

K. Venkataraman

Contents: PART I—JIGS AND FIXTURES 1. Introduction to Jigs and Fixtures 2. Design of Locators 3. Design of Clamps 4. Drilling Jigs 9789384726652 • 244 (Hb) • 2023 • ₹ 1295.00



Strength of Materials 2/Ed

T.S. Venkatesh

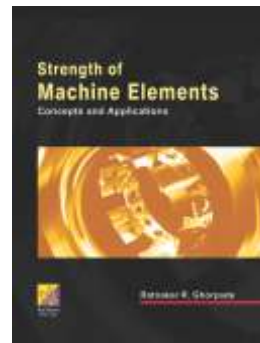
Contents: 1. Simple Stresses and Strains 2. Shear Force and Bending Moment 3. Bending Stresses in Beams 4. Shear Stresses in Beams 9789390658190 • 300 (Hb) • 2023 • ₹ 2495.00



Finite Element Analysis

T.S. Venkatesh V.B. Suryawanshi

Contents: 1. Introduction to Finite Element Method 2. Variational and Weighted Residual Method 3. Basics of Finite Element Analysis 9789389212679 • 546 (Hb) • 2023 • ₹ 1995.00



Strength of Machine Elements Concepts and Applications

Ratnakar R. Ghorpade

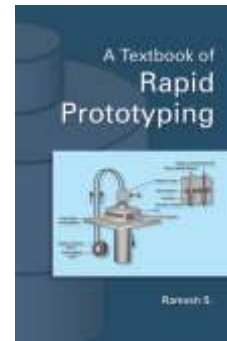
Contents: Simple Stresses And Strains, Temperature Stresses, Strain Energy, Shear Force And Bending Moment Diagrams, Slope And 9789388264983 • 474 (Hb) • 2023 • ₹ 1495.00



Combustion Technology Essentials of Flames and Burners

V. Raghavan

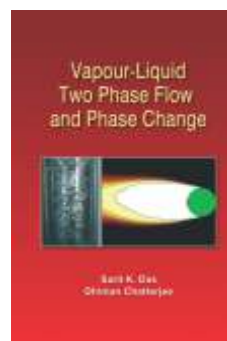
Contents: 1. Introduction 2. Review of Combustion Thermodynamics and Kinetics 3. Review of Combustion Phenomena 4. Burners For Gaseous 9789385462504 • 238 (Hb) • 2023 (R) • ₹ 1495.00



A Textbook of Rapid Prototyping

Ramesh S.

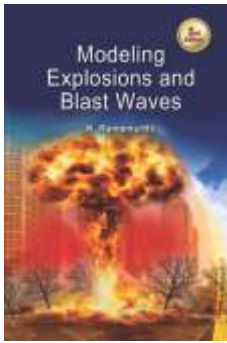
Contents: 1. Introduction to Rapid Prototyping 2. Stereo Lithography 3. Selective Laser Sintering and Fused Deposition Modelling 9789384726775 • 192 (Hb) • 2023 • ₹ 1295.00



Vapour-Liquid Two Phase Flow and Phase Change

Sarit K Das Dhiman Chatterjee

Contents: 1. Introduction to Two Phase Flow low Patterns and Maps 2. Two Phase Flow rressure Drop and Flow Friction 3. Thermodynamics of Phase 9789390658510 • 356 (Hb) • 2022 • ₹ 2495.00



Modeling Explosions and Blast Waves

2/Ed

K. Ramamurthi

Contents: 1. Basic Concepts and Introduction 2. Blast Waves in Air 3. Interaction of Blast Waves with Rigid and Non-rigid Bodies 4. Energy Release and Rate of Energy Release 5. Thermal Theory 6. Propagation of Reaction Front 7. Formation of Flames and Detonations 8. Condensed Phase Explosions 9. Unconfined and Confined Gas Phase Explosions 10. Dust Explosions 11. Physical Explosions and Rupture of Pressure Vessels 12. TNT Equivalence and Yield 13. Atmospheric Dispersion 14. Quantification of Damages.

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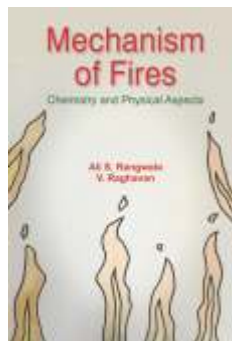
Ignition Sources

Fire, Explosion and Detonation

K. Ramamurthi

Contents: 1. Preliminary concepts and introduction 2. Thermal ignition energy sources 3. Chemical ignition energy sources 4. Electrostatic ignition energy sources 5. Shock waves as ignition sources 6. Electromagnetic radiation ignition sources 7. Formation of fires and explosions in solid combustibles 8. Detonation of solid explosives 9. Ignition of liquid fuels and explosives 10. Ignition sources for confined and unconfined gaseous combustibles 11. Unanticipated thermal ignition sources and threats 12. Shock wave and impact threats for solid explosives

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Mechanism of Fires

Chemistry and Physical Aspects

Ali. S. Rangwala
V. Raghavan

Contents: 1. Basic Considerations 2. Review of Thermodynamics and Transport Processes for Fires 3. Diffusion and Premixed Flames Related to Fires 4. Burning of Liquids 5. Burning of Solids 6. Properties of Fire Plumes 7. Compartment Fires 8. Dust Flames

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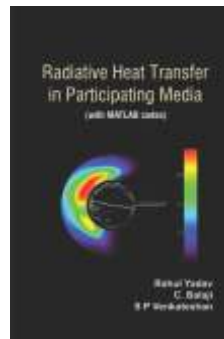


Manufacturing Operations Management

Sanjay Sharma

Contents: 1. Introduction 2. Facilities Planning 3. Demand Forecasting 4. Production Planning and Control 5. Work Study 6. Inventory Management

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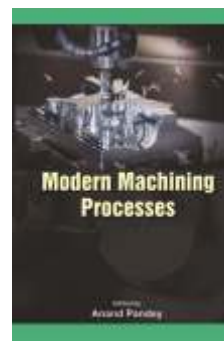
Radiative Heat Transfer in Participating Media

(with MATLAB codes)

Rahul Yadav
C Balaji
S.P. Venkateshan

Contents: 1 Introduction 2 State of the art on Radiative transfer in participating media 3 Mathematical Formulations and Solution

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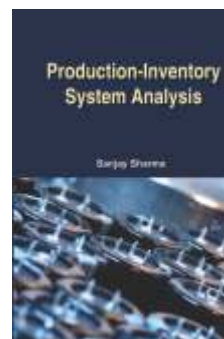


Modern Machining Processes

Anand Pandey

Contents: 1. Variants Of Electrical Discharge Machining 2. Wire Electrical Discharge Machining 3. Laser Beam Machining 4. Electro Chemical

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Production-Inventory System Analysis

Sanjay Sharma

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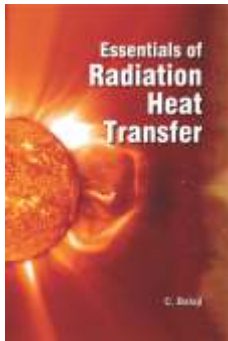


Thermal System Design and Optimization

2/Ed

C. Balaji

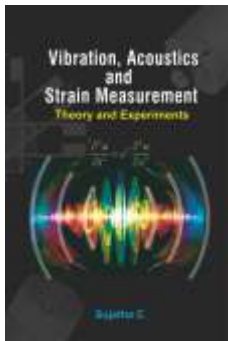
Contents: 1 Introduction to design and system design 2 System Simulation 3 Curve fitting 4 Optimization-Basic ideas and formulation 5 Lagrange
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Essentials of Radiation Heat Transfer

C. Balaji

Contents: 1. Introduction 2. Black body radiation 3. Radiative properties of non-black surfaces 4. View factors 5. Enclosure analysis 6. Gas radiation 7. Atmospheric radiation 8. Inverse problems in radiation
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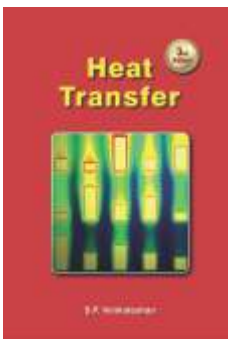


Vibration, Acoustics and Strain Measurement

Theory and Experiments

Sujatha C.

Contents: 1. Introduction 2. Theory of Vibration 3. Equipment for Measurement and Generation of Vibration 4. Fundamentals of Acoustics
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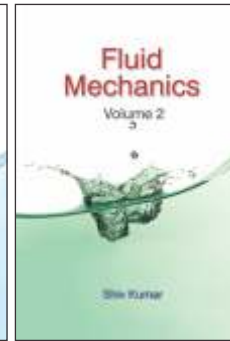
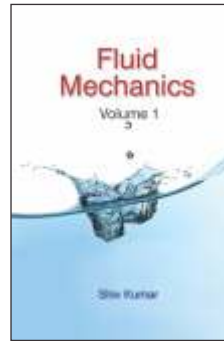


Heat Transfer

3/Ed

S.P. Venkateshan

Contents: 1. Introduction to the study of heat transfer; 2. Steady conduction in one dimension; 3. Unsteady heat transfer in lumped systems;
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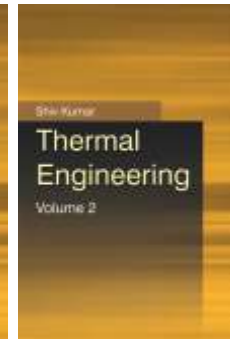
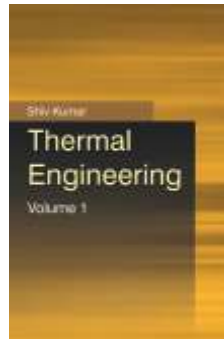
Fluid Mechanics

Volume 1 & 2

Shiv Kumar

Contents: (Vol.1) 1. Properties of Fluids 2. Pressure and Its Measurement 3. Hydrostatic Forces on Surface 4. Buoyancy and Floatation 5. Kinematics of Fluid Motion 6. Dynamics of Fluid Flow 7. Dimensional and Model Analysis Vol. 2: 1. Laminar Flow 2. Turbulent Flow 3. Boundary Layer Theory 4. Flow Through Pipe 5. Pipe Flow Measurement 6. Orifices and Mouthpieces 7. Flow Past Submerged Bodies 8. Flow Through Open Channels 9. Notches and Weirs 10. Compressible Flow

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9789394883321 • 544 (Hb) • 2023 • ₹ 2500.00



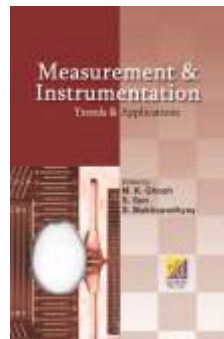
Thermal Engineering

Vol. 1 & 2

Shiv Kumar

Contents: (Vol.1) 1 Basic of Thermodynamics 2 Zeroth Law of Thermodynamics 3 First Law of Thermodynamics 4 Application of First Law of Thermodynamics to Flow Processes Thermodynamics 5 Second Law of Thermodynamics 6 Entropy 7 Availability and Irreversibility Vol. 2: 1 Properties of Pure Substance 2 Vapor Power Cycles 3 Introduction to Working of IC Engines 4 Air-Standard Cycles 5 Gas Turbines and Jet Propulsion 6 Thermodynamic Property Relations 7 Combustion

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9789394883147 • 600 (Hb) • 2023 • ₹ 2495.00



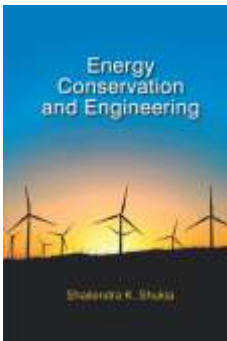
Measurement and Instrumentation

Trends and Applications

Edited by
M.K. Ghosh
S. Sen
S. Mukhopadhyay

Contents: Part A : Introduction, 1: Evolution and Trends in Measurement and Instrumentation, 2: Instrument Performance Evaluation, Part B : Sensors, 3: Electrical Sensors, 4: Optical Sensors, 5: Chemical Sensors, 6: Biochemical Sensors, 7: Nucleonic Sensors, 8: Microwave Sensors, 9: Silicon Micromachining, Microsensors and MEMS, 10: Design of MEMS Capacitive Accelerometers, Part C: Signal Conditioning and Processing, 11. Signal Conditioning and Processing, 12. Telemetry and Data

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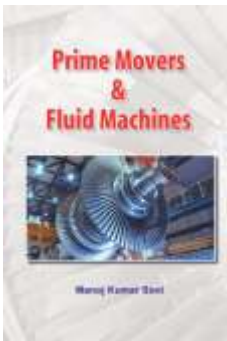


Energy Conservation and Engineering

Shailendra K Shukla

Contents: 1. Renewable Energy Sources 2. Solar Energy Basics 3. Solar Technologies 4. Civil Engineering Projects Connected with Energy Source 5. Biomass and Biogas Technologies 6. Smokeless Chulha 7. Geothermal Energy and Its Utilization 8. Ocean Thermal Energy Conversion 9. Fuel Cell 10. Thermoelectric Power Generation and M.H.D. Power 11. Energy Auditing and Green Building

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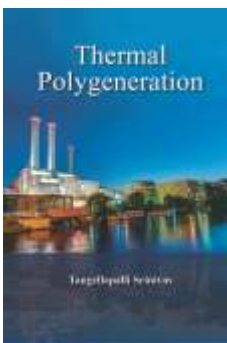


Prime Movers and Fluid Machines

Manoj Kumar Soni

Contents: 1. Dimensional Analysis & Model Testing, 2. Hydraulic Turbines, 3. Reciprocating Pumps, 4. Centrifugal Pumps, 5. Reciprocating Compressors, 6. Centrifugal Compressors, 7. Axial Flow Compressors, 8. Steam Nozzles, 9. Steam Turbines, 10. Gas Turbines

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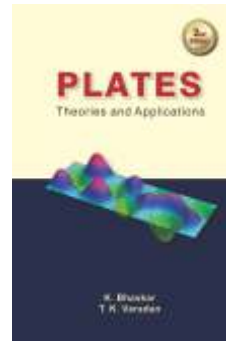


Thermal Polygeneration

Tangellapalli Srinivas

Contents: Foreword, Preface, Acknowledgements, Nomenclature 1. Introduction 2. Power Generation 3. Binary Fluid Properties and Processes 4. Binary Fluid Power 5. Binary Fluid Cooling 6. Vapour Compression Refrigeration 7. Humidification-Dehumidification Desalination 8. Binary Fluid Polygeneration 9. Heat Pump Polygeneration 10. Polygeneration – A Comparative Study Appendix - A - Binary Fluid Properties – Ammonia-Water Mixture Appendix - B - Refrigerants and Psychrometric Properties References

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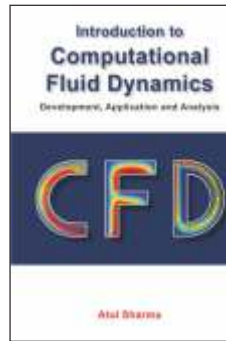


Plates Theories and Applications 2/Ed

K. Bhaskar
T.K. Varadan

Contents: Part A: Classical Theory and Straightforward Applications 1 Definition of a Thin Plate 2 Classical Plate Theory 3 A Critical Assessment of Classical Plate Theory 4 Analysis of Rectangular Plates 5 Analysis of Circular Plates 6 Free and Forced Vibrations 7 Effect of In-plane Forces on Static Flexure, Dynamics and Stability 8 Approximate Solutions Appendix – Solutions for Problems Part B: Complicating Effects and Corresponding Theories 9 Anisotropic, Laminated and Functionally-Graded Plates 10 Elasticity Solutions for Plates 11 Shear Deformation Theories 12 Variable Thickness Plates 13 Plate Buckling due to Non-Uniform Compression 14 Nonlinear Flexure and Vibrations 15 Post-Buckling Behaviour Index

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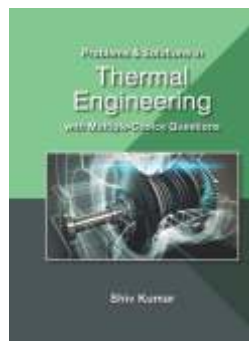


Introduction to Computational Fluid Dynamics Development, Application and Analysis

Atul Sharma

Contents: Part 1: Introduction & Essentials (1. Introduction, 2. Introduction to CFD, 3. Essentials of Fluid-Dynamics & Heat-Transfer, and 4. Essential of Numerical Methods). Part 2: CFD for a Cartesian Geometry (5. Computational Heat Conduction (CHC), 6. Computational Heat Advection, 7. Computational Heat Convection, 8. CFD: Finite Volume Method, 9. CFD on a Staggered Grid, and 10. CFD on a Co-located Grid). Part 3: CFD for a Complex Geometry (11. CHC and 12. CFD, on a Curvilinear Grid).

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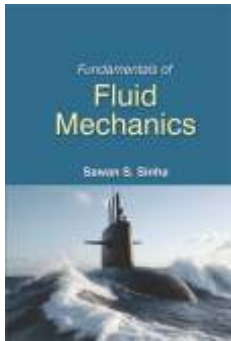


Problems & Solutions in Thermal Engineering with Multiple-Choice Questions

Shiv Kumar

Contents: 1 Basic of Thermodynamics 2 First Law of Thermodynamics 3 Second Law of Thermodynamics 4 Entropy 5 Properties of Pure Substance 6 Vapor Power Cycles 7 IC Engines 8 Gas Turbine, Answers, MCQ-Solution, Practice/Exam Questions with Solutions, Appendix

9788119160754 • 284 (Hb) • 2023 • ₹ 895.00



Fundamentals of Fluid Mechanics

Sawan S. Sinha

Contents: 1 Tensors 2 Mechanics: A brief review of the fundamentals 3 Description of fluid motion 4 Fluid Kinematics 5 Governing equations of fluid motion 6 Interaction of a flow field with a solid surface 7 Hydrostatics 8 Some simple representative flows of an ideal fluid 9 Some simple representative flows of a viscous fluid 10 Governing equation of motion in non-inertial reference frames

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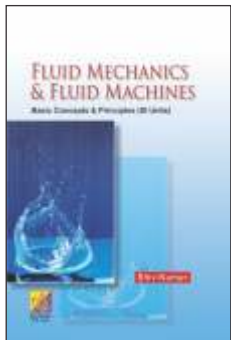


Maintenance Management and Engineering

Tanmoy Deb

Contents: 1 Part-I: Fundamentals of Maintenance Management, 1. Concept of Maintenance, 2. Maintenance Strategy and Organisation, Part-II: Maintenance Management Systems, 3. Maintenance Systems, 4. Maintenance Planning and Scheduling, 5. Maintenance System Operation, Documentation and Regulatory Compliance, 6. Project and Tendering Management, 7. Contract Management, Part-III: Operational Aspects of Maintenance Management, 8. Spare Parts and Inventory Management, 9. Material Handling Systems, 10. Industrial Safety Management, 11. Industrial Disaster Management, 12. Asset Replacement Decisions, 13. Shutdown Maintenance, 14. Computerised Maintenance

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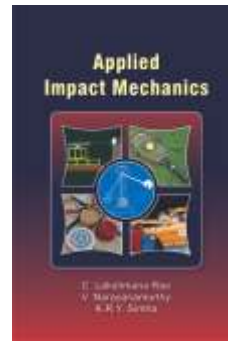
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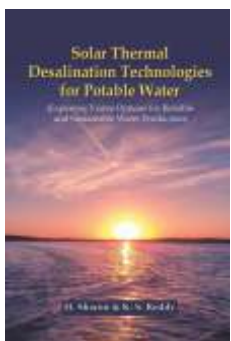
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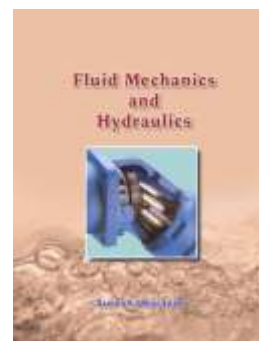
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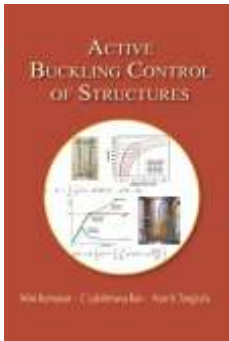


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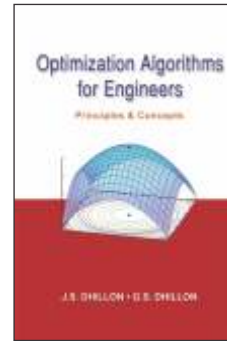


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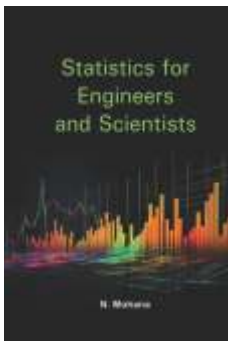
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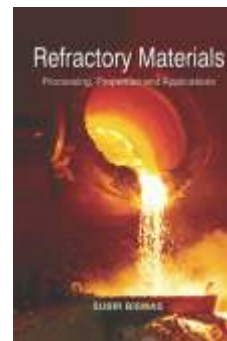


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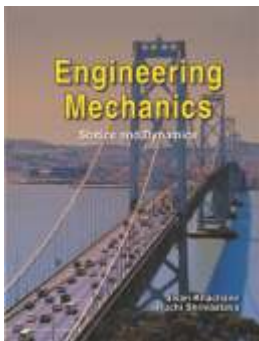
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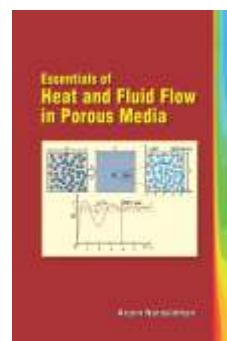
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