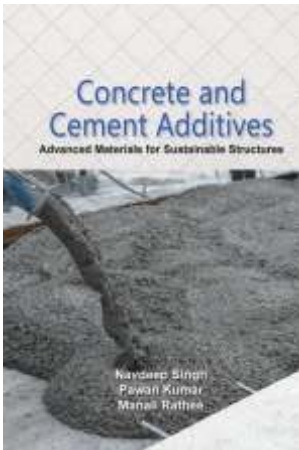




Concrete and Cement Additives Advanced Materials for Sustainable Structures

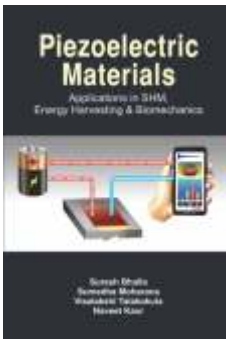
Navdeep Singh, Pawan Kumar, Manali Rathee



Contents

1. Concrete and its Properties 2. Self-Compacting Concrete 3. Geopolymer Concrete and its Properties Preview 4. Recycled Concrete Aggregates 5. Silica Fume as Cement Addition 6. Metakaolin as Cement Addition Preview 7. Ground Granulated Blast-Furnace Slag as Cement Addition 8. Combustion Products as Cement Addition

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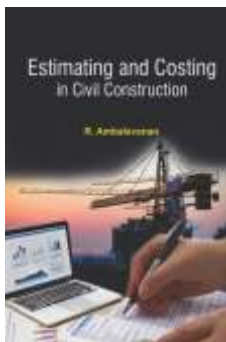


Piezoelectric Materials Applications in SHM, Energy Harvesting and Biomechanics

Suresh Bhalla
Sumedha Moharana
Visalakshi Talakokula
Naveet Kaur

Contents: 1. Introduction 2. Piezo-Transducers for Structural Health Monitoring and Non-Destructive Evaluation 3. Piezo Bond-Structure Elasto-Dynamic Interaction: Refined Model 4. Piezo-Structure Elasto-dynamic Interaction: Continuum Model 5. Fatigue Damage Monitoring in Steel Joints Using Piezo-Transducers 6. Chloride Induced Rebar Corrosion Monitoring Using Piezo-Transducers 7. Carbonation Induced Corrosion Monitoring Using Piezo-Transducers 8. Piezoelectric Energy Harvesting: Analytical Models 9. Energy Harvesting Using Thin PZT Patches on Real-Life Structures 10. Extension of Structural Health Monitoring Technologies to Bio-mechanics and Bio-medical Engineering 11. Piezoelectric Materials: What Lies in Future? Appendix-A , Appendix-B, Appendix-C, References, Index.

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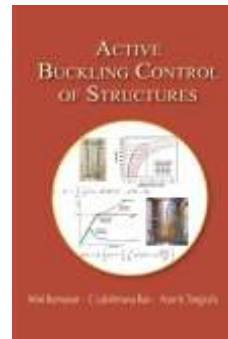


Estimating and Costing in Civil Construction

R. Ambalavanan

Contents: Preparation and Presentation of Estimates, Principles and Practice of Quantity Estimating, Rate Analysis and Costing, Illustrative worked out examples, Contracts and Specifications, Approximate Estimates, Principles and Practice of Valuation, Standard Data, Tutorial problems

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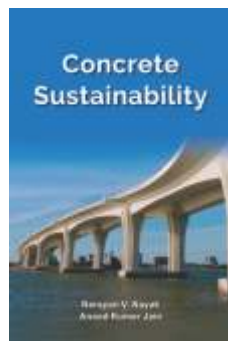


Active Buckling Control of Structures

Mini Ramanan
C. Lakshmana Rao
Arun K. Tangirala

Contents: 1 Perspective and History 2 Fundamentals 3 Fundamentals of control systems 4 Numerical methods 5 Instrumentation and Experimental Design 6 Buckling control of columns 7. Buckling control of plates 8. Control of shells exhibiting axisymmetric buckling 9. Control of shells exhibiting asymmetric buckling 10. Concluding remarks and scope for future work

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Concrete Sustainability

Narayan V. Nayak
Anand Kumar Jain

Contents: 1. Climate Change – A Global Challenge Before Mankind 2. Use of Supplementary Cementing Materials for Concrete Sustainability 3. Effect of Water and Water Binder Ratio on Concrete Sustainability 4. Relationship between Concrete Sustainability and Curing 5. Chemical Admixtures and Sustainability of Concrete 6. Sustainability and Aggregates Derived from the Industrial and Construction Demolition Waste 7. Sustainability and Concrete Cover to Reinforcement 8. High Strength, High Performance Concrete and Sustainability 9. Temperature Control of Concrete at Early Ages for Sustainability 10. Repair and Maintenance of Concrete Structures and Sustainability 11. Performance Based Specification for Sustainable Concrete 12. Use of Life Cycle Cost Analysis for Enhancing Sustainability of Concrete Structures 13. Modern Trends in Achieving Sustainability in Cementitious Materials and Concrete 14. Miscellaneous Issues Relating to Sustainability of Concrete.

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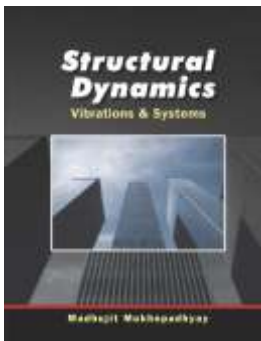
Fundamentals of Turbulence and its Modeling

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

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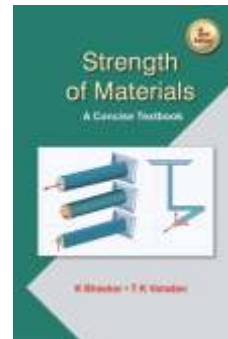


Structural Dynamics Vibrations & Systems

Madhujit Mukhopadhyay

Contents: Preface • Introduction • Free Vibration of Single Degree of Freedom System • Forced Vibration of Single Degree of Freedom System • Numerical Methods In Structural Analysis : Applied to SDF Systems • Vibration of Two Degrees of Freedom System • Free Vibration of Multiple Degrees of Freedom System • Forced Vibration Analysis of Multiple Degrees of Freedom System • Free Vibration Analysis of Continuous Systems • Forced Vibration of Continuous Systems • Dynamic Direct Stiffness Method • Vibration of Ship and Aircraft as A Beam • Finite Element Method in Vibration Analysis • Finite Difference Method for The Vibration Analysis of Beams and Plates • Nonlinear Vibration • Random Vibrations • Computer Program in Vibration Analysis • The Stiffness Matrix

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Strength of Materials

A Concise Textbook
2/Ed

K. Bhaskar
T.K. Varadan

About the Book: The aim of this book is to present the essentials of solid mechanics with reference to basic load-bearing members – straight bars, thin-walled cylindrical and spherical pressure vessels, circular shafts, beams undergoing simple bending, and columns. The corresponding fundamental assumptions, important equations, and their range of validity, are concisely elucidated without formal derivations; subsequently, the sequence of steps in the analysis of forces, stresses and displacements, or stability, is amply illustrated by way of several carefully selected examples.

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Finite Element Analysis

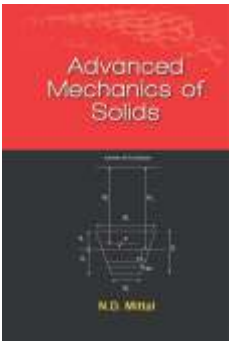
T.S. Venkatesh
V.B. Suryawanshi

Contents: 1. Introduction to Finite Element Method 2. Variational and Weighted Residual Method 3. Basics of Finite Element Analysis 4. Finite Element Analysis of 1D Problems 5. Trusses 6. Heat Transfer Analysis 7. Beam 8. Shape Function 9. Two Dimensional Elements 10. 2D Rectangular and Quadrilateral Element 11. Vibration Analysis 12. Finite Element Analysis Using ANSYS Software, Appendix

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Advanced Mechanics of Solids

N.D. Mittal

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

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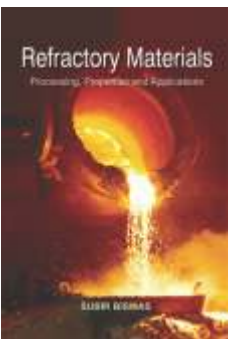


Green Building Technologies

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, Review Questions, References

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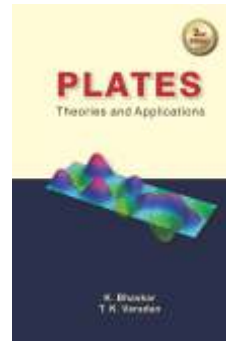


Refractory Materials Processing, Properties and Applications

Subir Biswas

Contents: 1. Introduction 2. Refractory raw materials 3 Properties of Refractories 4. Processing of Refractory bricks, shapes and monolithic 5. Different refractory products 6. Refractory application in Iron and steel making 7. Refractories for Re-heating furnaces 8. Application of refractories in non-ferrous industries 9. Application of refractories in other industries

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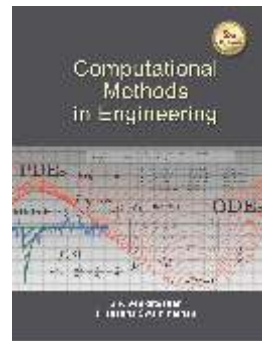


Plates Theories and Applications 2/Ed

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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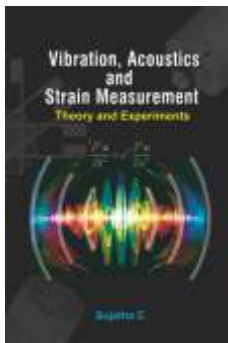


Computational Methods in Engineering 2/Ed

S.P. Venkateshan
Prasanna Swaminathan

Contents: Preface, Acknowledgments, 1 Preliminaries, 2 Solution of linear equations, 3 Computation of eigenvalues, 4 Solution of algebraic equations, 5 Interpolation, 6 Interpolation in two and three dimensions, 7 Regression or curve fitting, 8 Numerical Differentiation, 9 Numerical Integration, 10 Initial value problems, 11 Boundary value problems (ODE), 12 Introduction to PDEs, 13 Laplace and Poisson equations, 14 Advection and diffusion equations, 15 Wave equation, 16 Application Examples, Epilogue, Beyond the book - the way ahead, Researchers developing their own code, Users of commercial code, Where does one look for help?, Free resources, Licensed resources, Index.

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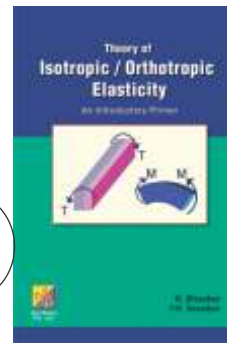
Vibration, Acoustics and Strain Measurement

Theory and Experiments

C. Sujatha

Contents: 1. Introduction 2. Theory of Vibration 3. Equipment for Measurement and Generation of Vibration 4. Fundamentals of Acoustics 5. Equipment for Measurements in Acoustics 6. Theory of Stress Analysis 7. Strain Gauge Based Equipment 8. Fundamentals of Signal Analysis 9. Basics of Experimental Modal Analysis 10. Vibration Experiments 11. Experiments in Acoustics 12. Common Experiments in Stress Analysis

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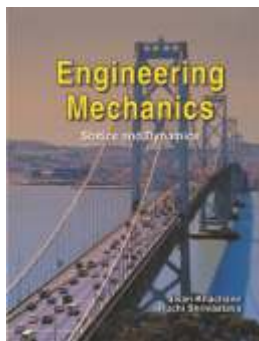
Theory of Isotropic / Orthotropic Elasticity

An Introductory Primer

Prof. K. Bhaskar
Prof. T.K. Varadan

Contents: Preface 1. Introduction and Mathematical Framework 2. Plane Problems in Cartesian Coordinates 3. Plane Problems in Polar Coordinates 4. Torsion of Non-circular Sections 5. Some Other Problems of Interest Appendix, Index

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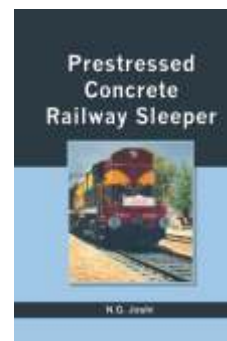
Engineering Mechanics

Statics and Dynamics

Jivan Khachane
Ruchi Shrivastava

Contents: 1. Statics 2. Support Reactions 3. Analysis of Truss 4. Centre of Gravity and Moment of Inertia 5. Friction 6. Lifting Machines 7. Transmission of Power 8. Kinematics 9. Kinetics 10. Shear Force and Bending Moment

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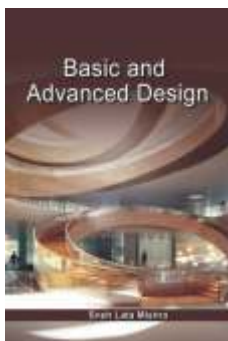


Prestressed Concrete Railway Sleeper

N.G. Joshi

Contents: 1. Introduction 2. Sleeper Production Systems 3. Requirements of Raw-Materials and Mix Design 4. Rail Fastening Systems 5. Normal Problems Faced in Production of PSC Sleeper & Their Probable Solutions 6. Quality Assurance and Testing 7. Installation and Maintenance of Precast Concrete Sleeper Track System 8. Design of PSC Sleepers 9. Indian Scenario 10. Performance of PSC Sleepers in Track 11. Future Sleeper Tracks 12. Non-Conventional Sleepers 13. Typical Standard Specifications for Pre-Tensioned Prestressed Concrete Sleepers for Broad Gauge and Meter Gauge 14. Appurtenances and other Important Information about Rails and Sleepers 15. Two Block Reinforced Concrete Sleeper.

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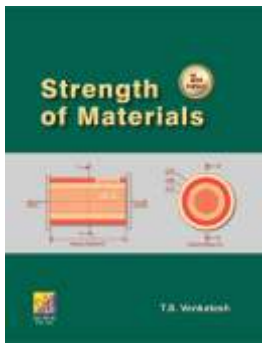


Basic and Advanced Design

Sneh Lata Mishra

Contents: Introduction, Early Beginnings, The Design Process, The design Project, Construction, Integrating Innovation in Architecture, Advanced Customization in Architectural Design and Construction, Design and Analysis of Tall and Complex Structures, Advanced Computer Architectures, Architecture, Implementation and Optimization, Advanced Design Examples of Seismic Retrofit of Structures, Advanced Analysis and Design of Steel Frames

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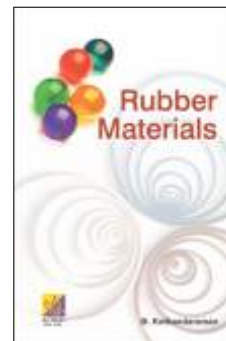
Strength of Materials

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 5. A Torsion B Close Coiled Helical Springs 6. Direct and Bending Stresses 7. Columns and Struts 8. Deflection 9. Principal Planes and Stresses 10. Strain Energy 11. Thin Cylinders 12. Thick Cylinders

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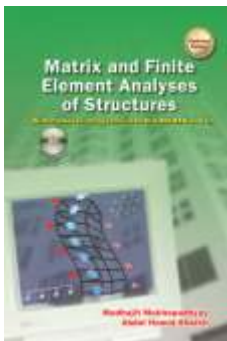


Rubber Materials

B. Kothandaraman

Contents: Preface, 1. Structure–Property Relationships in Rubbers 2. Natural Rubber 3. General Purpose Synthetic Rubbers 4. Special Purpose Synthetic Rubbers 5. High Performance Elastomers 6. Compounding Ingredients 7. Thermoplastic Elastomers 8. Blending and Compounding of Rubbers, Bibliography, Index.

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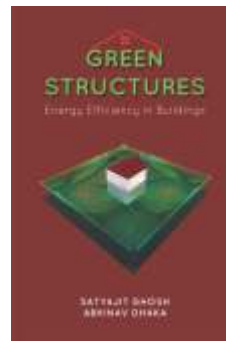
Matrix and Finite Element Analyses of Structures

(With Computer Programs in both FORTRAN and C)

Madhujit Mukhopadhyay
Abdul Hamid Sheikh

Contents: Preface 1 Basic Concepts of Structural Analysis 2 Energy Principles 3 Introduction to the Flexibility and Stiffness Matrix Methods 4 Direct Stiffness Method 5 Substructure Technique for the Analysis of Structural Systems 6 The Flexibility Matrix Method 7 Elements of Elasticity 8 Introduction to the Finite Element Method 9 Finite Element Analysis of the Plane Elasticity Problems 10 Isoparametric and Other Element Representations and Numerical Integration 11 Finite Element Analysis of Plate Bending Problems Chapter 12 Finite Element Analysis of Shells Chapter 13 Semianalytical and Spline Finite Strip Methods for the Analysis of Plate Bending Chapter 14 Dynamic and Instability Analyses by the Finite Element Method Chapter 15 The Finite Difference Method for the Analysis of Beams and Plates Chapter 16 Adaptive Finite Element Analysis Chapter 17 Geometrically Non-linear Finite Element Analysis Chapter 18 Finite Element Method Analysis of Stiffened Plates Chapter 19 Selected Topics References and Suggested Readings, Appendix, Subject Index.

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Green Structures Energy Efficiency in Buildings

Satyajit Ghosh
Abhinav Dhaka

Contents: Foreword, Preface, 1. Energy Efficiency in Buildings, 2. Siting and Microclimate, 3. Building Forms, 4. Building Fabric, 5. Renewable Energy, References

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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
- Explains where and how to search literature online for conducting research
- Explains where and how to search journals online for submitting manuscripts
- Explains the handling of software tools for plagiarism check
- Presents citation indexing bibliographic databases
- Familiarizes with both journal-level and author-level research metrics

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A Practical Guide

S. Suresh
S.N. Kumar
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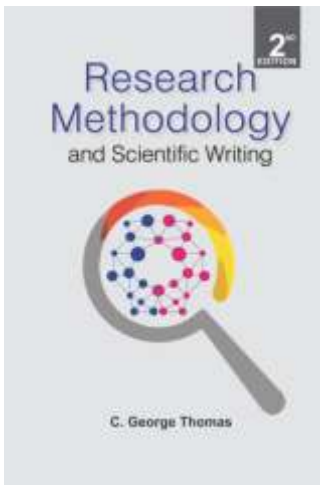
Research and Publication Ethics

Santosh Kumar Yadav

Contents:

1. Philosophy of Research: An Introduction; 2. Research Ethics; 3. Ethics in Scientific Research; 4. Intellectual Honesty and Research Integrity; 5. Scientific Misconduct; 6. Redundant Publications; 7. Publication Ethics; 8. Publication Misconduct; 9. Global Intellectual Property Law; 10. Open Access Publishing; 11. Referencing and Avoiding Plagiarism; 12. Database and Research Metrics

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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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