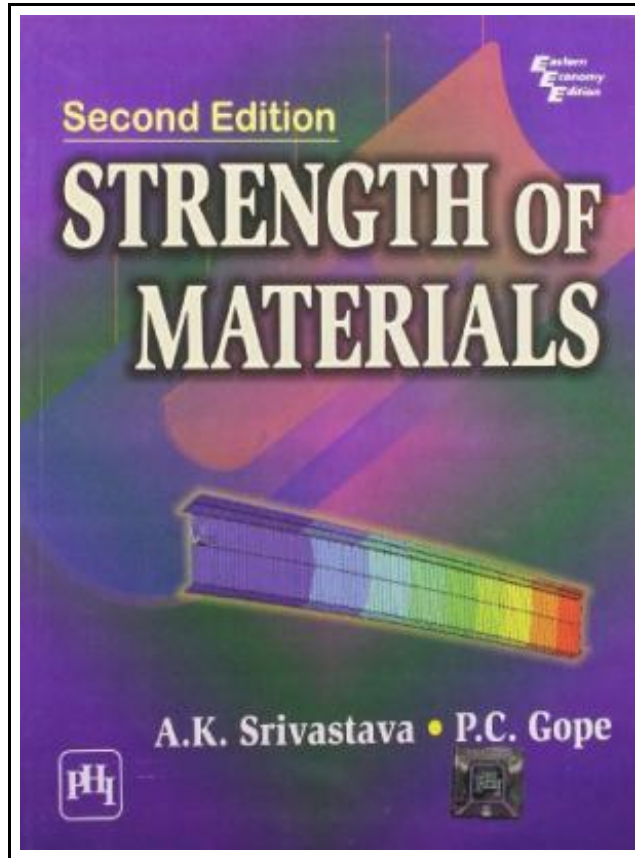


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STRENGTH OF MATERIALS, SECOND EDITION



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PHI Learning, 2012. Softcover. Book Condition: New. 2nd edition. The book, now in the Second Edition, presents the fundamental principles of strength of materials and focuses on 3D analysis of stress and strain, double integration method, Macaulay's method, moment area method and method for determining stresses using Winkler-Bach theory. It also covers the analyses of helical springs and leaf spring, and buckling analysis of columns and struts using Euler's and Rankine's theory. This edition includes four new chapters, namely Simple and Compound Stress, Theory of Failure, Energy Methods and Finite Element Method and its Applications Using ANSYS Software. The chapter on Analysis of Stress and Strain has been thoroughly revised. The text is primarily designed for the undergraduate students of mechanical engineering, production engineering, and industrial engineering. Besides students, practising engineers would also find the book useful. KEY FEATURES : A large number of numerical problems Open-ended or synthesis-type examples wherever required Chapter-end exercises Contents: Foreword ? Preface ? Preface to the First Edition 1. SIMPLE AND COMPOUND STRESS 2. ANALYSIS OF STRESS AND STRAIN 3. THEORY OF FAILURE 4. ENERGY METHODS 5. DEFLECTION OF BEAMS 6. CURVED BEAM 7. THIN CYLINDER AND SPHERE 8. THICK AND COMPOUND CYLINDER 9. UNSYMMETRICAL BENDING AND SHEAR CENTRE 10. COLUMNS AND STRUTS 11. SPRING 12. ROTATING DISCS AND CYLINDERS 13. FINITE ELEMENT METHOD AND ITS APPLICATION USING ANSYS SOFTWARE Index Printed Pages: 408.



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