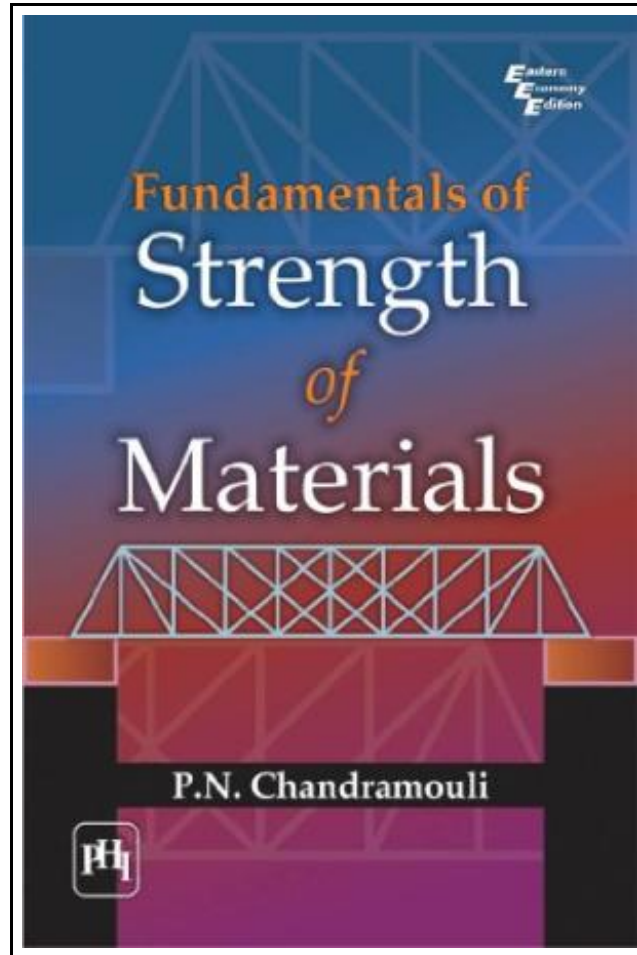


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Reviews

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PHI Learning, 2012. Softcover. Book Condition: New. This book provides comprehensive coverage of the fundamental concepts and all the key topics of interest in Strength of Materials with an emphasis on solving practical problems, from the first principles, related to the design of structural members, mechanical devices and systems in several fields of engineering. The book is organized to present a thorough treatment of stress analysis first. This treatment of basic principles is followed by appropriate application of analysis techniques and design approaches to trusses and cables, torsion in circular shaft, deflection of beams, buckling of straight columns and struts, and analysis of thick- and thin-walled cylinders under internal and external pressure. The book features clear explanations, a wealth of excellent worked-out examples of practical applications, and challenging problems. The book is intended for the undergraduate students of civil, mechanical, electrical, chemical, aeronautical, and production and industrial engineering. Key Features Provides a large number of worked-out examples to help students comprehend the concepts with ease. Gives chapter-end review questions to test students' understanding of the subject. Includes chapter-end numerical problems to enhance the problem-solving ability of students. Many of the problems depict realistic situations encountered in engineering practice. Incorporates objective type questions to help students assess their overall mastery of the subject. Contents: Preface 1. Stresses and Strains 2. Compound Stresses 3. Shear Force and Bending Moment 4. Trusses and Cables 5. Centroid and Centre of Gravity 6. Moment of Inertia 7. Bending and Shear Stresses in a Beam 8. Torsion in Circular Shaft 9. Deflection of Beams 10. Columns and Struts 11. Thin and Thick Cylinders 12. Testing of Materials Bibliography Index Printed Pages: 864.



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