

1: A Textbook Of Fluid Mechanics And Hydraulic Machines by Rajeev K. Bansal

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You can download full book here simply click on download button. At the college level, mechanics of materials is usually taught during the sophomore and junior years. The subject is required for most students majoring in mechanical, structural, civil, biomedical, petroleum, aeronautical, and aerospace engineering. A large number of numerical problems from different B. At the end of each chapter, highlights, theoretical questions and many unsolved numerical problems with answers have been given for the students to practice them. Three advanced topics—stresses due to rotation in thin and thick cylinders, bending of curved bars and theories of failures of the materials have also been added. These chapters have been written in such a simple and easy-to-follow language that even an average student can understand them easily by self-study. A large number of Objective Type Multiple Choice Questions, asked in the most of the competitive examinations, have been incorporated in this edition with answers and explanations to make this edition more useful for competitive examinations. The book is an in-depth study on the strength of various construction materials and their behavior under a variety of stresses and strains. Strength of Materials is useful for those studying construction engineering or appearing in related professional job-recruitment exams. The book begins with explaining Principal stresses and strains that are likely to affect construction materials. The comprehensive study of stiffness and elasticity of materials and its response to varied stress and strains provides apt knowledge to gauge and ensure appropriate responses while dealing with these materials. Considerable focus has been put on the features and usage of Reinforced Concrete as well Strength of Materials by RK Bansal touches on all important facets imperative to the topic in a meticulous manner that gives the candidate room to think, comprehend and grasp the various nuances of this diverse and expansive topic. Simple Stress and Strain 2. Principle Stress and Strain 4. Elastic strain Energy and impact loading 5. Centre of Gravity and Moment of Inertia 6. Shear force and Bending Moment 7. Bending Stress in Beams 8. Shear stress in beams 9. Direct and Bending Stress Dams and Retaining Walls Analysis of Frame Structure Deflection of Beams Conjugate Beam Method and Propped cantilevers Fixed and continuous beams Torsion of shafts and springs Thin cylinders and sphere Thick cylinders and Sphere

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Textbook of fluid mechanics by R K Bansal is very popular book of Fluid mechanics for undergraduate students studying Mechanical engineering or other related. this has great combination of both theory and numerical. book is also useful for student who is prepared for competition examination GATE, IES or any other.

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The main objective of writing this book on the subject of Fluid Mechanics is to present to the subject community, a book which should contain comprehensive treatment of the subject matter in simple, lucid and direct language and envelope a large number of solved examples properly graded, including.

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