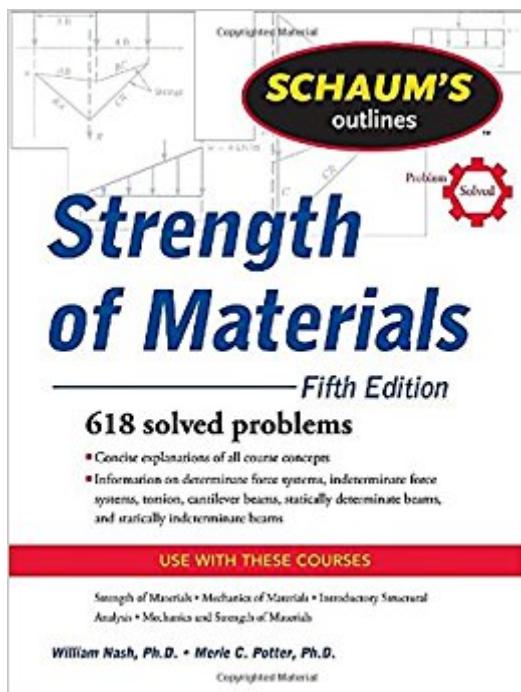


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Synopsis

Study faster, learn better, and get top grades Modified to conform to the current curriculum, Schaum's Outline of Strength of Materials complements these courses in scope and sequence to help you understand its basic concepts. The book offers extra practice on topics such as determinate force systems, indeterminate force systems, torsion, cantilever beams, statically determinate beams, and statically indeterminate beams. You'll also get coverage of centroid of an area, parallel-axis theorem for moment of inertia of a finite area, radius of gyration, product of inertia of an element of area, principal moments of inertia, and information from statics. Appropriate for the following courses: Strength of Materials; Mechanics of Materials; Introductory Structural Analysis; Mechanics and Strength of Materials Features: 618 solved problems Support for all the major textbooks for strength of materials courses Topics include: Tension and Compression, Statically Indeterminate Force Systems. Tension and Compression, Thin-Walled Pressure Vessels, Direct Shear Stresses, Torsion, Shearing Force and Bending Moment, Centroids, Moments of Inertia, and Products of Inertia of Plane Areas, Stresses in Beams, Elastic Deflection of Beams: Double-Integration Method, Elastic Deflection of Beams: Method of Singularity Functions, Statically Indeterminate Elastic Beams, Special topics in Elastic Beam Theory, Plastic Deformations of Beams, Columns, Strain Energy Methods, Combined Stresses, Members Subject to Combined Loadings; Theories of Failure

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Customer Reviews

Bought this as a supplement to my Composite Materials graduate course. Typically mechanical engineering students will have gone through strength of materials prior to taking the composite materials class but I was a chemistry undergrad and didn't take it. It is a useful reference for someone who did not take the class and needs background information for solving problems that use elementary beam theory.

Has a lot of examples that are useful for solving more complicated problems. Is easy to read and has good drawings of various types of applications.

Very useful. A lot of problems and covers all the basics. You will definitively get a better grade in your class

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