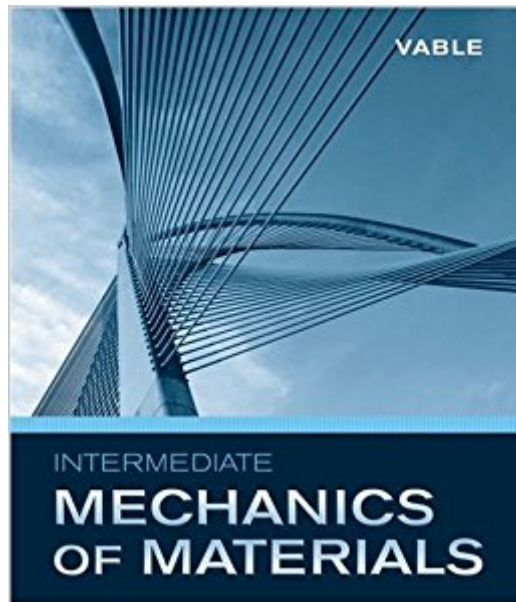




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Intermediate Mechanics Of Materials



Synopsis

Intermediate Mechanics of Materials provides an engaging treatment of three-dimensional stress and strain transformation, composites, non-linear and inelastic structural analysis, thin-walled structural members, energy methods, and the finite element method. Concise and accessible, the text logically links complex ideas together while building on students' prior knowledge. It explains different concepts through the repetitive use of a symbolic model, which relates displacements, strains, stresses, and internal/external forces and moments to each other. Intermediate Mechanics of Materials is designed for the second undergraduate course in mechanics of materials. Students should be already familiar with the basic concepts of stress, strain, axial rods, torsion of circular shafts, and symmetric bending of beams.

Book Information

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Customer Reviews

Madhukar Vable is Associate Professor of Mechanical Engineering and Engineering Mechanics at Michigan Technological University. He was honored as an MTU Distinguished Teacher and by the Michigan Association of Governing Boards of State Universities as a Distinguished Faculty Member. He is also a Fellow of the Wessex Institute of Technology in Great Britain. Dr. Vable is also the author of Mechanics of Materials, an introductory text (OUP).

My professor was a really good lecturer, and lectured straight out of the book, so I have to admit that I didn't refer to the book much. But I did use it when doing the homework because the book

works out a lot of examples that definitely help with the homework.

By far, the worst textbook I have ever had the displeasure of reading. Often the work problems will be precluded by maybe 2-3 pages of theoretical material, and no equations to work with. Doing homework problems is insanely difficult. The chapters are not readable at all. You will read some pages and then realize you absorbed nothing from them.

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