



Advanced Mechanics of Materials

Roman Solecki, R. Jay Conant

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Advanced Mechanics of Materials bridges the gap between elementary mechanics of materials courses and more rigorous graduate courses in mechanics of deformable bodies (i.e., continuum mechanics, elasticity, plasticity) taken by graduate students. Covering both traditional and modern topics, the text is ideal for senior undergraduate and beginning graduate courses in advanced strength of materials, advanced mechanics of materials, or advanced mechanics of solids. Rather than exclusively emphasizing either fundamentals or applications, it provides a balance between the two, teaching fundamentals while using real-world applications to solidify student comprehension.

Advanced Mechanics of Materials features: · applications to contemporary practice · use of modern computer tools, including Mathcad · an introduction to modern topics, such as piezoelectricity, fracture mechanics, and viscoelasticity

Chapters two through five cover theoretical and conceptual development and contain relatively simple examples aimed at enhancing student understanding. The remaining chapters apply the theory to specific classes of problems such as: · beam bending, including the effects of piezoelectricity · plate bending · beam and plate vibration and buckling · introductory concepts of fracture mechanics · finite element analysis
The authors assume that students will have an understanding of elementary (statics, dynamics, strength of materials) and intermediate (aircraft structures, machine design) mechanics.

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