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This is an advanced mechanics of materials textbook dedicated to senior undergraduate or beginning graduate students in mechanical, civil, and aeronautical engineering departments. The text covers subject matter generally referred to as advanced mechanics of materials or advanced strength of materials. The course is commonly called Intermediate/Advanced Strength of Materials, *Advanced Mechanics of Materials*, or *Advanced Mechanics of Solids*. This course follows an elementary *Solid Mechanics* (Vable OUP 2002) course and is taken by most structural engineering majors and aero majors. Unique features of Solecki/Conant include introduction to model topics such as fracture mechanics and viscoelasticity. Unlike the competition, the textbook introduces more applications to contemporary practice, as well as modern computer tools such as MATLAB.

This book balances introduction to the basic concepts of the mechanical behavior of composite materials and laminated composite structures. It covers topics from

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