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This systematic exploration of real-world stress analysis has been completely updated to reflect state-of-the-art methods and applications now used in aeronautical, civil, and mechanical engineering, and engineering mechanics. Distinguished by its exceptional visual interpretations of solutions, Advanced Mechanics of Materials and Applied Elasticity offers in-depth coverage for both students and engineers. The authors carefully balance comprehensive treatments of solid mechanics, elasticity, and computer-oriented numerical methods—preparing readers for both advanced study and professional practice in design and analysis. This major revision contains many new, fully reworked, illustrative examples and an updated problem set—including many problems taken directly from modern practice. It offers extensive content improvements throughout, beginning with an all-new introductory chapter on the fundamentals of materials mechanics and elasticity. Readers will find new and updated coverage of plastic behavior, three-dimensional Mohr's circles, energy and variational methods, materials, beams, failure criteria, fracture mechanics, compound cylinders, shrink fits, buckling of stepped columns, common shell types, and many other topics. The authors present significantly expanded and updated coverage of stress concentration factors and contact stress developments. Finally, they fully introduce computer-oriented approaches in a comprehensive new chapter on the finite element method.

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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.

Structural analysis and design today often incorporates anisotropy, inelastic strains, material non-homogeneity, material non-linearity, geometric non-linearity, shear in beams and plates, etc. These complexities were added to the classical theories of structural members over a long period of time resulting in large and baroque knowledge base that is a challenge to master for most students of mechanics. Logically synthesizing this tremendous knowledge in a single text is my primary objective for writing this book. The image shown on the front cover provides the mechanism of creating a logical framework for development of the simplest to the most advanced structural theories. Examples and post-text problems highlight the modularity of the logic and demonstrate the addition of complexities to the classical theories. The development of these advanced theories is demonstrated in two ways: the traditional differential equation approach and the variational calculus approach by which the potential energy is minimized. Problems of finite and infinite beams on elastic foundations are solved using influence functions. The last chapter on indicial notation along with variational calculus demonstrates the elegance and compactness of theory derivations covered in previous chapters. Traditional topics of three dimensional stress and strain transformation, failure theories, buckling, torsion of prismatic bars, are also covered. On my website madhuvable.org, I have posted a condensed version of this book, slides and review material. Along with my book on Intermediate Mechanics of Materials, an instructor will find all the topics that may be covered in any Advanced Mechanics of Materials course. A comparison of this book with other Advanced Mechanics of Materials books currently on the market can also be seen on the website.

Treats topics by extending concepts and procedures a step or two beyond elementary mechanics of materials and emphasizes the physical view -- mathematical complexity is not used where it is not needed. **KEY TOPICS:** Includes new coverage of symmetry considerations, rectangular plates in bending, plastic action in plates, and critical speed of rotating shafts. Expands the coverage of fatigue, the reciprocal theorem, semi-inverse problems in elasticity, thermal stress, and buckling.

This book presents both differential equation and integral formulations of boundary value problems for computing the stress and displacement fields of solid bodies at two levels of approximation - isotropic linear theory of elasticity as well as theories of mechanics of materials. Moreover, the book applies these formulations to practical solutions in detailed, easy-to-follow examples. Advanced Mechanics of Materials and Applied Elasticity presents modern and classical methods of analysis in current notation and in the context of current practices. The author's well-balanced choice of topics, clear and direct presentation, and emphasis on the integration of sophisticated mathematics with practical examples offer students in civil, mechanical, and aerospace engineering an unparalleled guide and reference for courses in advanced mechanics of materials, stress analysis, elasticity, and energy methods in structural analysis.

Demonstrating the relationship of advanced topics in the mechanics of materials, this text provides the engineer with a tool which can be used to relate theory to practice and worked examples throughout that link practice to theory.

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