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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.

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.

Rev. ed. of: Advanced strength and applied elasticity. 4th ed.

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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.

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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.

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.

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researchers and engineers. The third edition of the book consists of twelve chapters progressively covering all structural levels of composite materials from their constituents through elementary plies and layers to laminates and laminated composite structural elements. All-new coverage of beams, plates and shells adds significant currency to researchers. Composite materials have been the basis of many significant breakthroughs in industrial applications, particularly in aerospace structures, over the past forty years. Their high strength-to-weight and stiffness-to-weight ratios are the main material characteristics that attract the attention of the structural and design engineers. Advanced Mechanics of Composite Materials and Structural Elements helps ensure that researchers and engineers can continue to innovate in this vital field. Detailed physical and mathematical coverage of complex mechanics and analysis required in actual applications – not just standard homogeneous isotropic materials Environmental and manufacturing discussions enable practical implementation within manufacturing technology, experimental results, and design specifications. Discusses material behavior impacts in-depth such as nonlinear elasticity, plasticity, creep, structural nonlinearity enabling research and application of the special problems of material micro- and macro-mechanics

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