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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.

The Leading Practical Guide to Stress Analysis—Updated with State-of-the-Art Methods, Applications, and Problems This widely acclaimed exploration of real-world stress analysis reflects advanced methods and applications used in today's mechanical, civil, marine, aeronautical engineering, and engineering mechanics/science environments. Practical and systematic, Advanced Mechanics of Materials and Applied Elasticity, Sixth Edition, has been updated with many new examples, figures, problems, MATLAB solutions, tables, and charts. The revised edition balances discussions of advanced solid mechanics, elasticity theory, classical analysis, and computer-oriented approaches that facilitate solutions when problems resist conventional analysis. It illustrates applications with case studies, worked examples, and problems drawn from modern applications, preparing readers for both advanced study and practice. Readers will find updated coverage of analysis and design principles, fatigue criteria, fracture mechanics, compound cylinders, rotating disks, 3-D Mohr's circles, energy and variational methods, buckling of various columns, common shell types, inelastic materials behavior, and more. The text addresses the use of new materials in bridges, buildings, automobiles, submarines, ships, aircraft, and spacecraft. It offers significantly expanded coverage of stress concentration factors and contact stress developments. This book aims to help the reader Review fundamentals of statics, solids mechanics, stress, and modes of load transmission Master analysis and design principles through hands-on practice to illustrate their connections Understand plane stress, stress transformations, deformations, and strains Analyze a body's load-carrying capacity based on strength, stiffness, and stability Learn and apply the theory of elasticity Explore failure criteria and material behavior under diverse conditions, and predict component deformation or buckling Solve problems related to beam bending, torsion of noncircular bars, and axisymmetrically loaded components, plates, or shells Use the numerical finite element method to economically solve complex problems Characterize the plastic behavior of materials Register your product for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

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Updated and reorganized, each of the topics is thoroughly developed from fundamental principles. The assumptions, applicability and limitations of the methods are clearly discussed. Includes such advanced subjects as plasticity, creep, fracture, mechanics, flat plates, high cycle fatigue, contact stresses and finite elements. Due to the widespread use of the metric system, SI units are used throughout. Contains a generous selection of illustrative examples and problems.