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Ansel C. Ugural. CRC Press, Aug 26, ... Plates, and Shells, Third Edition ... plate represents Ritz method Section shear force shear strain shear stress shown in Figure simply supported simply supported plate sinh solution strain energy stress resultants structures symmetrical Table tensile tensile stress theory thermal thickness uniform load ...

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Due to its easy writing style, this is the most accessible book on the market. It provides comprehensive coverage of both plates and shells and a unique blend of modern analytical and computer-oriented numerical methods in presenting stress analysis in a realistic setting. Distinguished by its broad range of exceptional visual interpretations of the solutions, applications, and means by which loads are carried in beams, plates and shells. Combining the modern-numerical, mechanics of materials, and theory of elasticity methods of analysis, it provides an in-depth and complete coverage of the subject, not explored by other texts. Its flexible organization allows instructors to more easily pick and choose topics they want to cover, depending on their course needs. Students are exposed to both the theory and the latest applications to various structural elements. Two new chapters on the fundamentals provide a stronger foundation for understanding the material. An increased emphasis on computer tools, and updated problems, examples, and references, expose students to the latest information in the field.

Noted for its practical, student-friendly approach to graduate-level mechanics, this volume is considered one of the top references-for students or professionals-on the subject of elasticity and stress in construction. The author presents many examples and applications to review and support several foundational concepts. The more advanced concepts in elasticity and stress are analyzed and introduced gradually, accompanied by even more examples and engineering applications in addition to numerous illustrations.Chapter problems are carefully arranged from the basic to the more challenging. The author covers computer methods, including FEA and computational/equation-solving software, and, in many cases, classical and numerical/computer approaches.

Noted for its practical, accessible approach to senior and graduate-level engineering mechanics, Plates and Shells: Theory and Analysis is a long-time bestselling text on the subjects of elasticity and stress analysis. Many new examples and applications are included to review and support key foundational concepts. Advanced methods are discussed and analyzed, accompanied by illustrations. Problems are carefully arranged from the basic to the more challenging level. Computer/numerical approaches (Finite Difference, Finite Element, MATLAB) are introduced, and MATLAB code for selected illustrative problems and a case study is included.

Original edition published under the title: Stresses in plates and shells / Ansel C. Ugural.

Due to its easy writing style, this is the most accessible book on the market. It provides comprehensive coverage of both plates and shells and a unique blend of modern analytical and computer-oriented numerical methods in presenting stress analysis in a realistic setting. Distinguished by its broad range of exceptional visual interpretations of the solutions, applications, and means by which loads are carried in beams, plates and shells. Combining the modern-numerical, mechanics of materials, and theory of elasticity methods of analysis, it provides an in-depth and complete coverage of the subject, not explored by other texts. Its flexible organization allows instructors to more easily pick and choose topics they want to cover, depending on their course needs. Students are exposed to both the theory and the latest applications to various structural elements. Two new chapters on the fundamentals provide a stronger foundation for understanding the material. An increased emphasis on computer tools, and updated problems, examples, and references, expose students to the latest information in the field.

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.

This systematic exploration of real-world stress analysis has been completely revised and updated to reflect state-of-the-art methods and applications now in use throughout the fields of aeronautical, civil, and mechanical engineering and engineering mechanics. Distinguished by its exceptional visual interpretations of the solutions, it offers an in-depth coverage of the subjects for students and practicing engineers. The authors carefully balance comprehensive treatments of solid mechanics, elasticity, and computer-oriented numerical methods. In addition, a wide range of fully worked illustrative examples and an extensive problem sets-many taken directly from engineering practice-have been incorporated. Key additions to the Fourth Edition of this highly acclaimed textbook are materials dealing with failure theories, fracture mechanics, compound cylinders, numerical approaches, energy and variational methods, buckling of stepped columns, common shell types, and more. Contents include stress, strain and stress-strain relations, problems in elasticity, static and dynamic failure criteria, bending of beams and torsion of bars, finite difference and finite element methods, axisymmetrically loaded members, beams on elastic foundations, energy methods, elastic stability, plastic behavior of materials, stresses in plates and shells, and selected references to expose readers to the latest information in the field.

Presenting recent principles of thin plate and shell theories, this book emphasizes novel analytical and numerical methods for solving linear and nonlinear plate and shell dilemmas, new theories for the design and analysis of thin plate-shell structures, and real-world numerical solutions, mechanics, and plate and shell models for engineering appli

Because plates and shells are common structural elements in aerospace, automotive, and civil engineering structures, engineers must understand the behavior of such structures through the study of theory and analysis. Compiling this information into a single volume, Theory and Analysis of Elastic Plates and Shells, Second Edition presents a complete

Condensed Isogeometric Analysis for Plates and Shell Structures proposes a novel technique for plate and shell governing equations based on isogeometric analysis, which condenses the dynamic equilibrium equation for plate and shell structures-suitable for reducing the computation cost of large degrees of freedom due to the adoption of Non-Uniform Rational Basis Spline (NURBS) models in the plate and shell element formulations. It features useful guidance for understanding the isogeometric approach and includes accompanying MATLAB® source code in each chapter to deepen readers' understanding of the fundamental theories and methods of civil, architectural, and mechanical engineering. Features: Adopts a progressive and rigorous presentation of relevant topics to facilitate use by students, academics, and professionals Seamlessly integrates the CAD geometrical data into the conventional FE plate and shell classical element codes Allows computation of analytical solutions of plate and shell theories based on a newly-introduced condensation method, not approximation theory Includes relevant MATLAB® codes

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