

ENGINEERING MECHANICS

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BOOK JACKET **Elasticity** Martin H. Sadd, 2014-01-22 Elasticity Theory Applications and Numerics Third Edition continues its market leading tradition of concisely presenting and developing the linear theory of elasticity moving from solution methodologies formulations and strategies into applications of contemporary interest such as fracture mechanics anisotropic and composite materials micromechanics nonhomogeneous graded materials and computational methods. Developed for a one or two semester graduate elasticity course this new edition has been revised with new worked examples and exercises and new or expanded coverage of areas such as spherical anisotropy stress contours isochromatics isoclinics and stress trajectories. Using MATLAB software numerical activities in the text are integrated with analytical problem solutions. These numerics aid in particular calculations graphically present stress and displacement solutions to problems of interest and conduct simple finite element calculations enabling comparisons with previously studied analytical solutions. Online ancillary support materials for instructors include a solutions manual image bank and a set of PowerPoint lecture slides. Thorough yet concise introduction to linear elasticity theory and applications. Only text providing detailed solutions to problems of nonhomogeneous graded materials. New material on stress contours lines contact stresses curvilinear anisotropy applications. Further and new integration of MATLAB software. Addition of many new exercises. Comparison of elasticity solutions with elementary theory experimental data and numerical simulations. Online solutions manual and downloadable MATLAB code.

The Finite Element Method G.R. Liu, S. S. Quek, 2013-08-07 Written for practicing engineers and students alike this book emphasizes the role of finite element modeling and simulation in the engineering design process. It provides the necessary theories and techniques of the FEM in a concise and easy to understand format and applies the techniques to civil mechanical and aerospace problems. Updated throughout for current developments in FEM and FEM software the book also includes case studies diagrams illustrations and tables to help demonstrate the material. Plentiful diagrams illustrations and tables demonstrate the material. Covers modeling techniques that predict how components will operate and tolerate loads stresses and strains in reality. Full set of PowerPoint presentation slides that illustrate and support the book available on a companion website.

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