



Elasticity: Theory, Applications, and Numerics

Martin H. Sadd

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Elasticity: Theory, Applications and Numerics 2e provides a concise and organized presentation and development of the theory of elasticity, moving from solution methodologies, formulations and strategies into applications of contemporary interest, including fracture mechanics, anisotropic/composite materials, micromechanics and computational methods. Developed as a text for a one- or two-semester graduate elasticity course, this new edition is the only elasticity text to provide coverage in the new area of non-homogenous, or graded, material behavior. Extensive end-of-chapter exercises throughout the book are fully incorporated with the use of MATLAB software.

Key Features:

- * Provides a thorough yet concise introduction to general elastic theory and behavior
- * Demonstrates numerous applications in areas of contemporary interest including fracture mechanics, anisotropic/composite and graded materials, micromechanics, and computational methods
- * The only current elasticity text to incorporate MATLAB into its extensive end-of-chapter exercises
- * The book's organization makes it well-suited for a one or two semester course in elasticity

Features New to the Second Edition:

- * First elasticity text to offer a chapter on non-homogenous, or graded, material behavior
- * New appendix on review of undergraduate mechanics of materials theory to make the text more self-contained
- * 355 end of chapter exercises – 30% NEW to this edition

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