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Nota di contenuto	Mathematical Preliminaries, Deformation: Displacements and Strains, Stress and Equilibrium, Material Behavior-Constitutive Equations, Formulation and Solution Strategies, Strain Energy and Related Principles, Two-Dimensional Formulations, Two-Dimensional Problem Solution, Saint - Venant Extension, Torsion and Flexure, Complex Variable Methods, Anisotropic Elasticity, Thermoelasticity, Displacement Potentials and Stress Functions, Micromechanics Applications, Numerical Methods: Finite and Boundary Element Methods, Appendices A-D
Sommario/riassunto	Although there are several books in print dealing with elasticity, many focus on specialized topics such as mathematical foundations, anisotropic materials, two-dimensional problems, thermoelasticity, non-linear theory, etc. As such they are not appropriate candidates for a general textbook. This book provides a concise and organized presentation and development of general theory of elasticity. Complemented by a Solutions Manual and including MatLab codes and coding, this text is an excellent book teaching guide. - Contains exercises for student engagement as well as the integration and use of MATLAB Software - Provides development of common solution methodologies and a systematic review of analytical solutions useful in applications of engineering interest - Presents applications of contemporary interest