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included considerable work on numerical methods using finite and boundary element theory. Also, during this period, elasticity applications were directed at anisotropic materials for applications to composites. Most recently, elasticity has been used in micromechanical modeling of materials with internal defects or heterogeneity. The rebirth of modern

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A simplified strain gradient Kirchhoff rod model and its applications on microsprings and microcolumns. Journal of Mechanics of Materials and Structures 2020 , 15 (2) , 203-223.

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Finite elasticity. The elastic behavior of objects that undergo finite deformations has been described using a number of models, such as Cauchy elastic material models, Hypoelastic material models, and Hyperelastic material models. The deformation gradient (F) is the primary deformation measure used in finite strain theory. Cauchy elastic materials

Elasticity (physics) - Wikipedia

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The subject of computational plasticity encapsulates the numerical methods used for the finite element simulation of the behaviour of a wide range of engineering materials considered to be plastic - i.e. those that undergo a permanent change of shape in response to an applied force. Computational Methods for Plasticity: Theory and Applications describes the theory of the associated numerical ...