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Elasticity: Plasticity: The body exhibiting elasticity regains its shape or size after the removal of the external force. The body exhibiting plasticity retains its new shape or size after the removal of the external force. There is a temporary change in dimensions of the body on the application of the deforming force.



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4.7.2 Fractional Gradient Plasticity and Fractal Plasticity In this section, we briefly consider nonlinear field equations with fractional derivatives of noninteger order to describe nonlinear elasticity or



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deformation theory of plasticity for fractional continua, with power-law nonlocality and weak nonlinearity.

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springer, Nonlinear Continuum

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book, many important results in this field have been published. This new edition refers to the most important results. The part on hyperelastic models and anisotropic yield criteria has been enlarged and an outlook on Material Plasticity has been added.

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The book offers a careful introduction to modern non-linear mechanics. The used mathematical tools, such as tensor algebra and analysis are given in detail. The general theory of mechanical behaviour is particularized for the broad and important classes of elasticity and plasticity.

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In physics and materials science, plasticity, also known as plastic deformation, is the ability of a solid material to undergo permanent deformation, a non-reversible change of shape in response to applied forces. For

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example, a solid piece of metal being bent or pounded into a new shape displays plasticity as permanent changes occur within the material itself.

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