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In mathematics, the elasticity or point elasticity of a positive differentiable function f of a positive variable (positive input, positive output) at point a is defined as $E f (a) = a f (a) f ' (a)$

$$\{ \displaystyle E f (a) = \frac { a } { f (a) } f ' (a) \}$$

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R.M. Hill, Mathematical Theory of Plasticity (Oxford Clarendon Press, 1998). A.E.H. Love, Treatise on the Mathematical Theory of Elasticity (Dover, 1944). L.D. Landau and E.M. Lifshitz, Theory of Elasticity (Pergamon Press, 1986). Please note that e-book versions of many books in the reading lists can be found on SOLO and ORLO.

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The mathematical theory of elasticity under equilibrium consists

in this, that knowing the action of external forces (loads) and the so-called boundary conditions, it is possible to determine the values, at each point of the body, of the components of the stress and the deformation, as well as the components u_x , u_y , u_z of the displacement vector at each part of the body, i ...

In physics and materials science, elasticity is the ability of a body to resist a distorting influence and to return to its original size and shape when that influence or force is removed. Solid objects will deform when adequate loads are applied to them; if the material is elastic, the object will return to its initial shape and size after removal. This is in contrast to plasticity, in which the object fails to do so and instead remains in its deformed state. The physical reasons for elastic be