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W is isotropic i? W(F) = ?(v1,v2,v3), where ? is symmetric with respect to permutations of the vi. Proof. Suppose W is isotropic. Then F = RDQforR,Q?SO(3)andD=diag(v1,v2,v3). Hence W = W(D). But for any permutation P of 1,2,3 there exists Q˜ such that Q˜diag(v1,v2,v3)Q˜T =diag(vP1,vP2,vP3). The converse holds since QTFTFQ has the

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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 = ? ()= ? ? ? = ? ? () ? = ? ? () ? ? % % or equivalently = ? ?.It is thus the ratio of the relative (percentage) change in the function's output () with respect to the relative change in its input ...

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2 1. Description of Three - Dimensional Elasticity Figure 1.1.1: Let ?: BR ? R3 be a su?ciently regular mapping. It is said to be a deformation if (1.1-2) det(??) >0 where ??is called the deformation gradient and is a matrix given by ?? ??1 ?XR1 ??1 ?XR2 ??1 ?XR3 ??2 ?X 1 ??2 ?X R2 ??2

?X 3 ??3 ?XR1 ??3 ?XR2 ??3 ?XR3

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