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The continuum analog of a crystal containing imperfections is an elastic body in a state of stress not produced by surface and body forces. The appropriate tool for handling the "continuum theory of lattice defects" is thus the usual theory of elasticity modified to include internal stress.

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continuum theories incorporating internal rotations and conjugate moment tensor that are absent in the classical continuum theories, the fundamental question is "are the conservation and balance laws used in classical continuum mechanics sufficient to ensure dynamic equilibrium of the deforming volume of matter".

### **Necessity of law of balance of moment of moments in non**

solid resulting from the homogenization of the dry solid and the voids. When modeling only liquid diffusion through the macroscopic solid, the displacement of the macroscopic solid and the liquid volume fraction are chosen to characterize the state of the porous medium, and Fick's law is used as the governing equation for liquid flow.

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