



# Principles of Continuum Mechanics

By Mysore N. L. Narasimhan

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Devoted to the classical continuum theory of solids and fluids as well as selected topics of modern continuum mechanics of viscoelasticity and microcontinua together with their applications to problems of practical interest. Highlights the derivation of constitutive equations for materials from thermodynamics rather than by the traditional methods of fluid dynamics and elasticity theory, with the result that these equations are well supported on physical grounds. Provides complete mathematical derivations of most fundamental equations and inequalities. Contains numerous major applications with solutions and worked-out illustrative examples. Also utilizes current research articles.

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