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this book deals with the mechanics of solid bodies in contact a subject intimately connected with such topics as fracture hardness and elasticity coverage begins with an introduction to the mechanical properties of materials general fracture mechanics and the fracture of brittle solids it then provides a detailed description of indentation stress fields for both elastic and elastic plastic contact in addition the book discusses the formation of hertzian cone cracks in brittle materials subsurface damage in ductile materials and the meaning of hardness coverage concludes with an

overview of practical methods of indentation testing

this book offers a comprehensive treatment of nonlocal elasticity theory as applied to the prediction of the mechanical characteristics of various types of biological and non biological nanoscopic structures with different morphologies and functional behaviour it combines fundamental notions and advanced concepts covering both the theory of nonlocal elasticity and the mechanics of nanoscopic structures and systems by reporting on recent findings and discussing future challenges the book seeks to foster the application of nonlocal elasticity based approaches to the emerging fields of nanoscience and nanotechnology it is a self contained guide and covers all relevant background information the requisite mathematical and computational techniques theoretical assumptions physical methods and possible limitations of the nonlocal approach including some practical applications mainly written for researchers in the fields of physics biophysics mechanics and nanoscience as well as computational engineers the book can also be used as a reference guide for senior undergraduate and graduate students as well as practicing engineers working in a range of areas such as computational condensed matter physics computational materials science computational nanoscience and nanotechnology and nanomechanics

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