



Surface Waves in Anisotropic and Laminated Bodies and Defects Detection

Edited by

Robert V. Goldstein and
Gerard A. Maugin

NATO Science Series

Surface Waves In Anisotropic And Laminated Bodies And Defects Detection Nato Science Series Ii

Robert V. Goldstein, Gérard A. Maugin



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Maugin, 2006-02-21 Among the variety of wave motions one can single out surface wave propagation since these surface waves often adjust the features of the energy transfer in the continuum system its deformation and fracture Predicted by Rayleigh in 1885 surface waves represent waves localized in the vicinity of extended boundaries surfaces of viscoelastic media In the ideal case of an isotropic elastic half space while the Rayleigh waves propagate along the surface the wave amplitude displacement in the transverse direction exponentially decays with increasing distance away from the surface As a result the energy of surface perturbations is localized by the Rayleigh waves within a relatively narrow layer beneath the surface It is this property of the surface waves that leads to the resonance phenomena that accompany the motion of the perturbation sources like surface loads with velocities close to the Rayleigh one see e.g. R V Goldstein Rayleigh waves and resonance phenomena in elastic bodies Journal of Applied Mathematics and Mechanics PMM 1965 v 29 N 3 pp 608 619 It is essential to note that resonance phenomena are also inherent to the elastic medium in the case where initially there are no free unloaded surfaces However they occur as a result of an external action accompanied by the violation of the continuity of certain physical quantities e.g. by crack nucleation and dynamic propagation Note that the aforementioned resonance phenomena are related to the nature of the surface waves as homogeneous solutions eigenfunctions of the dynamic elasticity equations for a half space i.e. nonzero solutions at vanishing boundary conditions

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related to the nature of the surface waves as homogeneous solutions eigenfunctions of the dynamic elasticity equations for a half space i.e. nonzero solutions at vanishing boundary conditions

Surface Waves in Geomechanics: Direct and Inverse Modelling for Soils and Rocks Carlo G. Lai, Krzysztof Wilmanski, 2007-03-23 Theories of surface waves develop since the end of XIX century and many fundamental problems like existence phase and group velocities attenuation quality factor mode conversion etc have been in part successfully solved within the framework of such simple models as ideal fluids or linear elasticity However a sufficiently complete presentation of this subject particularly for solids is still missing in the literature The sole exception is the book of I A Viktorov which contains an extensive discussion of fundamental properties of surface waves in homogeneous and stratified linear elastic solids with particular emphasis on contributions of Russian scientists Unfortunately the book has never been translated to English and its Russian version is also hardly available Practical applications of surface waves develop intensively since a much shorter period of time than theories even though the motivation of discoverers of surface waves such as Lord Rayleigh stems from their appearance in geophysics and seismology Nowadays the growing interest in practical applications of surface waves stem from the following two main factors surface waves are ideal for developing relatively cheap and convenient methods of nondestructive testing of various systems spanning from nanomaterials e.g.

The British National Bibliography Arthur James Wells, 2004 Wave Dynamics, Mechanics and Physics of Microstructured Metamaterials Mezhlum A. Sumbatyan, 2019-05-17 This book addresses theoretical and experimental methods for exploring microstructured metamaterials with a special focus on wave dynamics mechanics and related physical properties The authors use various mathematical and physical approaches to examine the mechanical properties inherent to particular types of metamaterials These include Boundary value problems in reduced strain gradient elasticity for composite fiber reinforced metamaterials Self organization of molecules in ferroelectric thin films Combined models for surface layers of nanostructures Computer simulation at the micro and nanoscale Surface effects with anisotropic properties and imperfect temperature contacts Inhomogeneous anisotropic metamaterials with uncoupled and coupled surfaces or interfaces Special interface finite elements and other numerical and analytical methods for composite structures

IUTAM Symposium on Recent Advances of Acoustic Waves in Solids Tsung-Tsong Wu, Chien-Ching Ma, 2010-09-08 Rapid growth of the mobile communication market has triggered extensive research on the bulk as well as surface acoustic wave devices in the last decade Quite a few important results on the modeling and simulation of Film Bulk Acoustic Resonator FBAR and Layered SAW devices were reported recently The other recent advance of acoustic waves in solids is the so called phononic crystals or phononic band gap materials Analogous to the band gap of light in photonic crystals acoustic waves in periodic elastic structures also exhibit band gap Important applications of phononic band gap materials can potentially be found with creating a vibration free environment in microstructures and design of advanced acoustic frequency filter etc In addition to the wave electronics and phononic crystals to facilitate the emerging needs in the

quantitative nondestructive evaluation of materials waves in anisotropic solids and or electro magneto interaction problems also regained much attention recently Topics treated include Waves in piezoelectric crystals Simulation of advanced BAW and SAW devices Analysis of band gaps in phononic structures Experimental investigation of phononic structures Waves in multilayered media Waves in anisotropic solids and or electro magneto interaction problems **American Book Publishing Record** ,2003 **La Recherche** ,2002

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