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~~Rayleigh and Lamb Waves Book Subtitle Physical  
Theory and Applications Authors. I. A. Viktorov; Series  
Title Ultrasonic Technology Copyright 1967 Publisher  
Springer US Copyright Holder Springer  
Science+Business Media New York Softcover ISBN  
978-1-4899-5683-5 Edition Number 1 Number of  
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The basic principles in Rayleigh and Lamb wave propagation with respect to their use in non-destructive evaluation (NDE) were presented. The attenuation and sensing of waves and physical principles...

## Rayleigh and Lamb Waves — Basic Principles

The dispersion curves can be obtained by solving the Rayleigh – Lamb frequency equation  $1 - 2\frac{c_L^2}{c_P^2} + 2\frac{c_L^2}{c_S^2} - \frac{c_L^2}{c_P^2} \frac{c_L^2}{c_S^2} = 0$  [25]. Define  $\alpha = c_L/c_P$ ,  $\beta = c_L/c_S$ ,  $\gamma = c_L/c_P$ ,  $\delta = c_L/c_S$ ,  $\epsilon = c_L/c_P$ ,  $\zeta = c_L/c_S$ , where  $c_P$  is the pressure (longitudinal motion) wave velocity,  $c_S$  is the shear (transverse motion) wave v...

## Rayleigh and Lamb Waves: Physical Theory and Applications ...

Rayleigh waves are a type of surface acoustic wave that travel along the surface of solids. They can be produced in materials in many ways, such as by a localized impact or by piezo-electric transduction, and are frequently used in non-destructive testing for detecting defects. Rayleigh waves are part of the seismic waves that are produced on the Earth by earthquakes. When guided in layers they are referred to as Lamb waves, Rayleigh – Lamb waves, or generalized Rayleigh waves.

## Rayleigh wave — Wikipedia

Rayleigh and Lamb Waves: Physical Theory and Applications (Paperback) I. A. Viktorov. Published by Springer-Verlag New York Inc., United States (2013) ISBN 10: 1489956832 ISBN 13: 9781489956835.

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The term Rayleigh – Lamb waves embraces the Rayleigh wave, a type of wave that propagates along a single surface. Both Rayleigh and Lamb waves are constrained by the elastic properties of the surface(s) that guide them. Figure 1: Upper and lower, respectively: Extensional ( $S_0$ ) mode with  $d/\lambda = 0.6$   $\{ \displaystyle d/\lambda = 0.6 \}$ .

## ~~Lamb waves — Wikipedia~~

Abstract A nondestructive technique is described for the measurement of elastic constants of isotropic plates using ultrasonic Rayleigh-Lamb waves. The experimental method employs continuous harmonic waves and a pair of variable-angle contact transducers in pitch-catch mode.

## ~~Elastic property measurement using Rayleigh-Lamb waves ...~~

Rayleigh and Lamb Waves Basic Principles. K. Worden. Dynamics Research Group Department of Mechanical Engineering, University of Sheffield ... Modelling of Guided Waves in a Composite Plate Through a Combination of Physical Knowledge and Regression Analysis, Rotating Machinery, Optical Methods & Scanning LDV Methods, Volume 6, 10.1007/978-3 ...

## ~~Rayleigh and Lamb Waves — Basic Principles — Worden — 2001 ...~~

Abstract. The antecedent work on Lamb waves is not hard to identify. It was Lord Rayleigh in 1889 who first explained wave propagation along a guided surface [1], and the waves are known as Rayleigh waves today.

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Following Rayleigh's work, Horace Lamb, a British applied mathematician, reported the waves discovered in plates in one of his historic publications, On Waves in an Elastic Plate, in 1917 [2], and the waves were named after him as Lamb waves.

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But, Kirsty Gallacher, 44, looked happier and healthier than ever as she displayed her toned abs in a sports bra and wetlook leggings while working up a sweat with Amanda Lamb, 48, during a ...

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