Abstracts

Piezoelectric Elastic Surface Waves in Anisotropic Layered Media

R.V. Schmidt and F.W. Voltmer. "Piezoelectric Elastic Surface Waves in Anisotropic Layered Media." 1969 Transactions on Microwave Theory and Techniques 17.11 (Nov. 1969 [T-MTT] (Special Issue on Microwave Acoustics)): 920-926.

Solutions for surface elastic waves propagating in a layered media consisting of a CdS film on a fused quartz substrate have been found. Piezoelectric coupling in the CdS has been included. The Rayleigh, Sezawa, and Love modes are discussed. The surface wave velocity, mechanical displacements, and electric fields are found as a function of layer thickness for the Rayleigb and Sezawa modes. Velocity dispersion was experimentally measured and found to be in good agreement with theory.

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