

SURFACE WAVE PROPAGATION IN AN OCEANIC CRUST MODEL

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A b s t r a c t

Dispersion of Rayleigh type surface wave propagation has been discussed for a model of oceanic crust that includes a layer of liquid-saturated porous solid over an impervious isotropic elastic half-space in the model already considered by Kaushik and Tomar. Frequency equation is obtained in the form of determinant. The effects of the width of different layers as well as the inhomogeneity of inhomogeneous layer on surface waves are depicted and shown graphically by considering a particular model. Some special cases have been deduced, which have already been discussed elsewhere.

Key words: surface wave, oceanic crust model, liquid-saturated porous media.