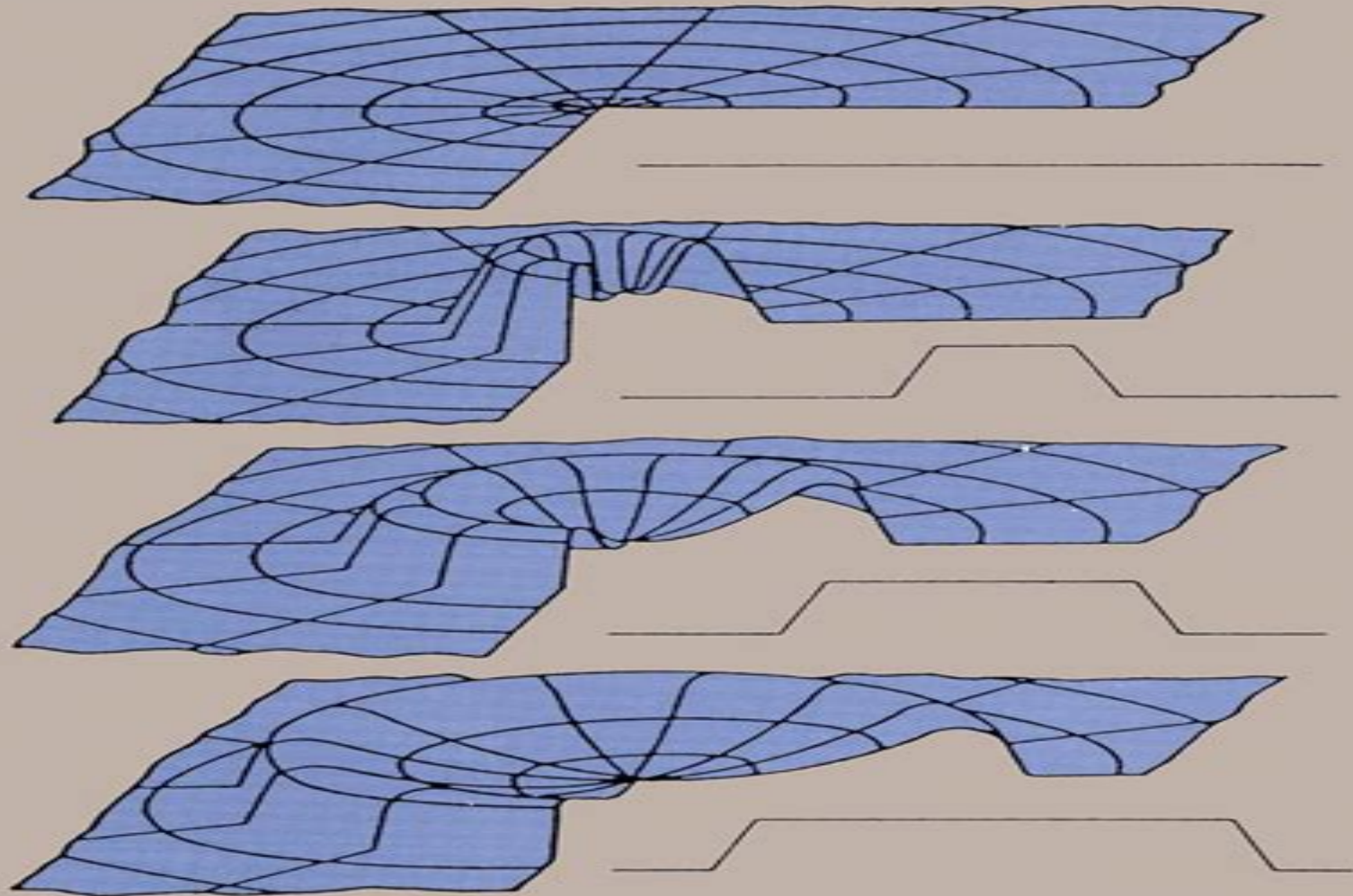


WAVE MOTION IN ELASTIC SOLIDS



Karl F. Graff

Wave Motion In Elastic Solids

**J. D. Achenbach, A. K. Gautesen, H.
McMaken**



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deformations superposed on large deformations of elastic solids By varying the initial stretch in a homogeneously deformed solid it is possible to synthesize anisotropic materials whose elastic parameters vary continuously The range of the parameter variation is limited by stability considerations in the case of small deformations superposed on large deformation problems and what is essentially the same thing by the of hyperbolicity solids whose parameters allow wave motion for anisotropic notion solids The full implication of hyperbolicity for anisotropic elastic solids has never been previously examined and even now the constraints which it imposes on the elasticity constants have only been examined for the class of transversely isotropic hexagonal crystals materials

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Catalogue international de la littérature scientifique, 1889 **On Wave Propagation in Elastic Solids with Cracks** Ch Zhang, Dietmar Gross, 1998 Begins with both a non hypersingular time domain traction boundary integral equation formulation for transient elastodynamic crack analysis and a time stepping scheme for solving the boundary integral equations The scheme is applied to analyze three dimensional rectangular and penny shaped cracks and to investigate pulse shape effects on the dynamic stress intensity factor The corresponding frequency domain boundary integral equation is given and time harmonic wave propagation in randomly cracked solids is treated The second half of the book deals with the elastodynamic analysis of a periodic array of cracks in plane strain and of anti plane interface cracks between two different materials and the effect of the material anisotropy on the near tip quantities the scattered far field and wave attenuation and dispersion No index Annotation copyrighted by Book News Inc Portland OR **Memoir and Scientific Correspondence of the Late Sir George Gabriel Stokes, Bart. ...** Sir George Gabriel Stokes, 1907 **Physical Review**, 1920 Vols for 1903 include Proceedings of the American Physical Society ... *On the Propagation of Earthquake Motion to Great Distances* Richard Dixon Oldham, 1900 The universe and the atom; the ether constitution, creation and Marion Erwin, 1915

Elasticity and Heat William Thomson, 1878 *Proceedings of the Asiatic Society of Bengal*, 1904

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