



Interface effects in elastic wave scattering [

Bogan, Samuel D. (1962-)

Springer-Verlag, 1994

Libres electrònics

Monografía

The authors study dynamical effects of incident compressional and distortional elastic waves on a layer of planar, cylindrical, or spherical geometry, especially focusing on the stress fields surrounding the layer. These results are derived from the exact solutions for elastic wave scattering from such interfaces developed in the first part of the book. Comparisons of numerical solutions of special problems with the analytical solutions are given and it is shown how the latter help to simplify the numerical treatment. The material presented in this monograph will help in developing composite materials with improved chemical and physical properties and in non-destructive testing of such materials. Engineers, physicists, and workers in applied mathematics will welcome this well written text. It may also be used for additional reading in a course on elasto-mechanics

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