

# Ray Methods For Waves In Elastic Solids: With Applications To Scattering By Cracks

by J. D Achenbach; A. K Gautesen; H McMaken

Ray methods for waves in elastic solids : with applications to . and INSERM, U556, Theratic Applications of Ultrasound Laboratory, Lyon, . antiplane waves by a single thin crack in an elastic solid is obtained in this letter. Specifically, the angular shape function is derived, with scattering coefficients expressed in .. D. Achenbach, A. K. Gautesen, and H. McMaken, Ray Methods for. Ray methods for waves in elastic solids: with . - Google Books The scattering of SH waves by a finite crack with a superposition . Ray methods for waves in elastic solids : with applications to . ADVANCES IN APPLIED MECHANICS - Google Books Result Ray methods for waves in elastic solids : with applications to . Ray methods for waves in elastic solids : with applications to scattering by cracks. by Jan D Achenbach; H McMaken; A K Gautesen. Print book. English. 1982. Scattering and Attenuation of Seismic Waves - Google Books Result Ray Methods for Waves in Elastic Solids with Applications to Scattering by Cracks. Pittman of obliquely incident Rayleigh waves by a surface breaking crack.

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The scattering of a plane longitudinal wave from a two-dimensional crack, with a sinusoidal surface perturbation whose amplitude and wavelength are much smaller than the length of the crack, is...<sup>1</sup> J. D. Achenbach, A. K. Gantesen, and H. McMaken, *Ray Methods for Waves in Elastic Solids* with Applications to Scattering by Cracks, (Pitman Publ., London, 1982, in press).<sup>2</sup> J. D. Achenbach, L. Adler, D. K. Lewis, and H. McMaken, Diffraction of ultrasonic waves by penny-shaped cracks in metals: theory and experiment. *J. Acoust. Soc. Am.* 66:1848-1856 (1979).<sup>3</sup> P. Beckmann and A. Spizzichino, *The Scattering of Electromagnetic Waves from Rough Surfaces* (MacMillan, New York, 1963).<sup>4</sup> Achenbach, J. D. and Gantesen, A. K. and McMaken, H. *Ray methods for waves in elastic solids : with applications to scattering by cracks* / J.D. Achenbach, A.K. Gantesen, and H. McMaken Pitman Advanced Pub. Program Boston 1982. Australian/Harvard Citation. Achenbach, J. D. & Gantesen, A. K. & McMaken, H. 1982, *Ray methods for waves in elastic solids : with applications to scattering by cracks* / J.D. Achenbach, A.K. Gantesen, and H. McMaken Pitman Advanced Pub. Program Boston. Wikipedia Citation.<sup>5</sup> Modern problems in elastic wave propagation : International Union of Theoretical and Applied Mechanics s Wave motion in elastic solids [by] Karl F. Graff. *The theory of elastic waves and waveguides* / by Julius Miklowitz.