



Wave Motion in Elastic Solids (Paperback)

By Karl F. Graff

Dover Publications Inc., United States, 1991. Paperback. Condition: New. New edition. Language: English . Brand New Book. This highly useful textbook presents comprehensive intermediate-level coverage of nearly all major topics of elastic wave propagation in solids. The subjects range from the elementary theory of waves and vibrations in strings to the three-dimensional theory of waves in thick plates. The book is designed not only for a wide audience of engineering students, but also as a general reference for workers in vibrations and acoustics. Chapters 1-4 cover wave motion in the simple structural shapes, namely strings, longitudinal rod motion, beams and membranes, plates and (cylindrical) shells. Chapters 5-8 deal with wave propagation as governed by the three-dimensional equations of elasticity and cover waves in infinite media, waves in half-space, scattering and diffraction, and waves in thick rods, plates, and shells. To make the book as self-contained as possible, three appendices offer introductory material on elasticity equations, integral transforms and experimental methods in stress waves. In addition, the author has presented fairly complete development of a number of topics in the mechanics and mathematics of the subject, such as simple transform solutions, orthogonality conditions, approximate theories of plates and asymptotic methods. Throughout,...

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