



Stress Waves in Solids (Paperback)

By H. Kolsky

Dover Publications Inc., United States, 2012. Paperback. Condition: New. Language: English . Brand New Book. The theory of the propagation of waves in solids was developed during the 19th century but, in the first quarter of this century, it fell into neglect. Only recently, as the result of new techniques of study and the development of new plastics and other such materials, has it again become the object of intensive investigation. This book is the most readable survey of the theoretical core of current knowledge of the subject and, unlike most other studies in the field, it is fully correlated with experimental material. The author, who has taught applied physics on the college level for many years, gives a concise account of the classical theory necessary to an understanding of the subject, considers how this theory has been extended to solids which are not perfectly elastic, and then summarizes the important experimental work of recent years. The first part, Elastic Waves, covers propagation in both an extended and a bounded plastic medium and experimental investigations with elastic materials. Included in this material are discussions of the components of stress and strain; Hooke's law; Rayleigh waves; reflection and refraction of...

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