

1. Record Nr.	UNINA9910554863003321
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Titolo	Elastic waves in solids . 1 Propagation // Daniel Royer, Tony Valier-Brasier
Pubbl/distr/stampa	London, UK : , : ISTE Ltd Hoboken, NJ : , : John Wiley & Sons, Inc., , 2022 ©2022
ISBN	9781119902942 1119902940 1-119-90292-4 9781786308146
Descrizione fisica	1 online resource (xv, 297 pages) : illustrations (chiefly colour)
Collana	Waves series
Disciplina	531.1133
Soggetti	Elastic wave propagation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (pages 287-293) and index.
Nota di contenuto	Propagation in an Unbounded Solid -- Reflection and Transmission at an Interface -- Surface Waves and Interface Waves -- Guided Elastic Waves -- Appendix 1: Differential Operators in Cylindrical and Spherical Coordinates -- Appendix 2: Symmetry and Tensors -- Appendix 3: Transport of Energy.
Sommario/riassunto	"Elastic waves are used in fields as diverse as the non-destructive evaluation of materials, medicine, seismology and telecommunications. Elastic Waves in Solids 1 presents the different modes of propagation of elastic waves in increasingly complex media and structures. It first studies the propagation in an unlimited solid where only the material properties are taken into account. It then analyzes reflection and transmission phenomena at an interface with a fluid or a second solid. It explains the search for propagation modes on a free surface or at the interface between two media. Finally, it proposes a study of the dispersive propagation of elastic waves guided by a plate or a cylinder. This book is intended for students completing a master's degree in acoustics, mechanics, geophysics or engineering, as well as teachers and researchers in these disciplines."--Provided by publisher.

