

1. Record Nr.	UNINA9910254211303321
Autore	Bagdoev Alexander G
Titolo	Wave Dynamics of Generalized Continua // by Alexander G. Bagdoev, Vladimir I. Erofejev, Ashot V. Shekoyan
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2016
ISBN	3-642-37267-8
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (285 p.)
Collana	Advanced Structured Materials, , 1869-8441 ; ; 24
Disciplina	620
Soggetti	Mechanics, Applied Solids Acoustics Materials - Analysis Condensed matter Solid Mechanics Characterization and Analytical Technique Condensed Matter Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	From the Contents: Waves in a viscous solid with cavities -- Waves in viscous, dispersive, nonlinear, preliminary deformable layer with a free surface -- Waves in solids with porosity filled by an electrically non-conducting liquid (Biot medium) -- Waves in a solid with porosity filled by electrically conducting liquid located in a constant electric field -- Piezoelastic waves.
Sommario/riassunto	This monograph is devoted to problems of propagation and stability of linear and nonlinear waves in continuous media with complex structure. It considers the different media, such as solid with cavities, preliminary deformed disperse medium, solid with porosity filled by the electrically conductive and non-conductive liquid, magnetoelastic, piezo-semiconductors, crystals with dislocations, composites with inclusions, an electrically conductive asymmetrical liquid, a mixture of gas with a drop liquid. The book also considers the propagation of a laser beam through a two-level medium. The presented results are

based on methods of evolution and modulation equations that were developed by the authors. The book is intended for scientific and technical researchers, students and post-graduate students specializing in mechanics of continuous media, physical acoustics, and physics of the solid state.

---