

1. Record Nr.	UNINA9910877335003321
Titolo	Mechanics of viscoelastic materials and wave dispersion // edited by Yvon Chevalier, Jean Tuong Vinh
Pubbl/distr/stampa	London, : ISTE Hoboken, N.J., : Wiley, 2010
ISBN	1-118-62311-8 1-299-31519-4 0-470-39427-7
Descrizione fisica	1 online resource (671 p.)
Collana	ISTE ; ; v.79
Altri autori (Persone)	ChevalierYvon VinhJean Tuong
Disciplina	620.1/1292
Soggetti	Materials - Mechanical properties - Experiments Structural engineering - Materials - Experiments Wave motion, Theory of - Experiments Dispersion - Experiments Engineering instruments
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 and index.
Nota di contenuto	pt. A. Constitutive equations of materials -- pt. B. Rod vibrations.
Sommario/riassunto	Dynamic tests have proven to be as efficient as static tests and are often easier to use at lower frequency. Over the last 50 years, the methods of investigating dynamic properties have resulted in significant advances. This book explores dynamic testing, the methods used, and the experiments performed, placing a particular emphasis on the context of bounded medium elastodynamics. The discussion is divided into four parts. Part A focuses on the complements of continuum mechanics. Part B concerns the various types of rod vibrations: extensional, bending, and torsional. Part C is devoted to mecha