1. Record Nr. UNINA9910830891103321

Record Nr.	UNINA9910830891103321
Autore	Chevalier Yvon
Titolo	Mechanical Characterization of Materials and Wave Dispersion [[electronic resource]]
Pubbl/distr/stampa	Hoboken, : Wiley, 2013
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)	TuongJean Vinh
Disciplina	620.1/1292 620.11 620.11292
Soggetti	Dispersion -- Experiments Engineering instruments Materials -- Mechanical properties -- Experiments Structural engineering -- Materials -- Experiments Wave motion, Theory of -- Experiments Viscoelastic materials - Mechanical properties - Mathematical models Flexible structures - Vibration - Mathematical models Structural engineering - Mathematical models - Materials Wave-motion, Theory of - Mathematics Dispersion - Mathematical models Wave equation Chemical & Materials Engineering Engineering & Applied Sciences Materials Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Mechanics of Viscoelastic Materials and Wave Dispersion; Title Page; Copyright Page; Table of Contents; Preface; Acknowledgements; PART A. CONSTITUTIVE EQUATIONS OF MATERIALS; Chapter 1. Elements of Anisotropic Elasticity and Complements on Previsional

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