1. Record Nr. UNINA990001700970403321

Autore	Misset, Marie Therese
Titolo	Contribution a la chimie taxonomique de 57 especes de legumineuse : etude qualitative et quantitative des proteinesde leurs graines, traitement informatique des donnees : these... / Marie Therese Misset
Pubbl/distr/stampa	Geneve : Universite, 1977
Descrizione fisica	18 p. ; 24 cm
Disciplina	583.32 581.19
Locazione	FAGBC
Collocazione	60 OP. 107/11
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910619280303321

Autore	Gao Nansha
Titolo	Dynamic Equivalent Modeling of Acoustic Metamaterials : Solving Problem of Noise and Vibration / / by Nansha Gao, Jie Deng
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-19-4371-0
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (185 pages)
Collana	Physics and Astronomy Series
Disciplina	700
Soggetti	Acoustics Metamaterials Noise control Mathematical physics Computer simulation Architectural acoustics Noise Control Computational Physics and Simulations Architectural Acoustics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Basic theory of acoustic metamaterials and dynamic equivalent inverse problem solving theory -- Chapter 3. Theoretical model for solving inverse problem of dynamic equivalent medium of periodic beam and bar structures -- Chapter 4. Theoretical model for inverse problem solving of dynamic equivalent medium of periodic thin plate structures -- Chapter 5. Study on vibration characteristics of gradient bar based on dynamic equivalent medium inverse problem solving theoretical model -- Chapter 6. Study on low-frequency band gap mechanism of multi-layer slit tube structure based on acoustoelectric analog equivalent model.
Sommario/riassunto	This book derives physical models from basic principles, studies the effect of equivalent models on the dynamic characteristics of phononic crystals and acoustic metamaterials, and analyzes the physical mechanisms behind vibration and noise reduction. It first summarizes the research status of vibration and noise reduction, and research

progress in phononic crystals and acoustic metamaterials. Based on this, one-dimensional periodic beam, two-dimensional thin plate with circular hole, and corresponding gradient structures are introduced, and their dynamic characteristics are discussed in detail. Therefore, different equivalent methods for different models are proposed through theoretical analysis, modal analysis and transmission rate analysis. Finally, a Helmholtz-type acoustic metamaterial, i.e. a multi-layer slotted tube acoustic metamaterial, is studied. Aiming at the low-frequency band gap of this model, a theoretical model for solving the inverse problem of acousto-electric analogue equivalent is proposed, and the effect of structural parameters on the low-frequency band gap is studied using this equivalent model. This book closely revolves around how to conduct equivalent research on artificially fabricated periodic structures. The methods and conclusions presented in this book provide a new theoretical basis for the application of artificial woven periodic structures in the field of low-frequency vibration reduction and noise reduction and are also an innovation in the discipline of vibration and noise control. This book is suitable for undergraduate students, graduate students and teachers in vibration and noise majors in universities, and can also provide references for engineering and technical personnel in related fields. .