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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to Phononic Crystals and Acoustic Metamaterials -- Discrete One-Dimensional Phononic and Resonant Crystals -- One-Dimensional Phononic Crystals -- 2d-3d Phononic Crystals -- Dynamic Mass Density and Acoustic Metamaterials -- Damped Phononic Crystals and Acoustic Metamaterials -- Nonlinear Periodic Phononic Structures and Granular Crystals -- Tunable Phononic Crystals and Metamaterials -- Nanoscale Phononic Crystals and Structures -- Phononic Band Structures and Transmission Coefficients: Methods and Approaches.
Sommario/riassunto	This comprehensive book presents all aspects of acoustic metamaterials and phononic crystals. The emphasis is on acoustic wave propagation phenomena at interfaces such as refraction, especially unusual refractive properties and negative refraction. A thorough discussion of the mechanisms leading to such refractive phenomena includes local resonances in metamaterials and scattering in phononic crystals.