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Autore	Laude Vincent
Titolo	Phononic crystals : artificial crystals for sonic, acoustic, and elastic waves / / Vincent Laude
Pubbl/distr/stampa	Berlin, [Germany] ; ; Boston, [Massachusetts] : , : De Gruyter, , 2015 ©2015
ISBN	3-11-038791-3 3-11-030266-7
Descrizione fisica	1 online resource (420 p.)
Collana	De Gruyter Studies in Mathematical Physics, , 2194-3532 ; ; Volume 26
Disciplina	548
Soggetti	Crystallography Crystals - Acoustic properties Metamaterials Acoustical materials Electronic books.
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	Front matter -- Preface -- Contents -- 1. Introduction -- Part I: Acoustic waves in sonic crystals -- 2. Scalar waves in periodic media -- 3. Acoustic waves -- 4. Sonic crystals -- Part II: Elastic waves in phononic crystals -- 5. Elastic waves -- 6. Phononic crystals for bulk elastic waves -- 7. Phononic crystals for surface and plate waves -- Part III: Wave phenomena in phononic crystals -- 8. Coupling of acoustic and elastic waves in phononic crystals -- 9. Evanescent Bloch waves -- 10. Locally-resonant crystals -- 11. Mirrors, waveguides, and cavities -- 12. Spatial and temporal dispersion -- 13. Conclusion -- Bibliography -- Index -- Backmatter
Sommario/riassunto	Phononic crystals are artificial periodic structures that can alter efficiently the flow of sound, acoustic waves, or elastic waves. They were introduced about twenty years ago and have gained increasing interest since then, both because of their amazing physical properties and because of their potential applications. The topic of phononic crystals stands as the cross-road of physics (condensed matter physics, wave propagation in inhomogeneous and periodic media) and

engineering (acoustics, ultrasonics, mechanical engineering, electrical engineering). Phononic crystals cover a wide range of scales, from meter-size periodic structures for sound in air to nanometer-size structures for information processing or thermal phonon control in integrated circuits. Phononic crystals have a definite relation with the topic of photonic crystals in optics. The marriage of phononic and photonic crystals also provides a promising structural basis for enhanced sound and light interaction. As the topic is getting popular, it is nowadays presented and discussed at various international conferences. After the first ten years during which the topic has remained mainly theoretical with a few proof-of-concept demonstrations in the literature, the evolution has been towards applications, instrumentation, and novel designs. The physical explanations for various effects are now well understood and efficient numerical methods and analysis tools have been developed. The book contains a comprehensive set of finite element model (FEM) scripts for solving basic phononic crystal problems. The scripts are short, easy to read, and efficient, allowing the reader to generate for him(her)self band structures for 2D and 3D phononic crystals, to compute Bloch waves, waveguide and cavity modes, and more.

2. Record Nr.	UNINA9910796347603321
Titolo	Ireland's heritages : critical perspectives on memory and identity / / edited by Mark McCarthy
Pubbl/distr/stampa	Abingdon, Oxon ; ; New York, NY, : Routledge, Taylor & Francis Group, 2017
ISBN	1-351-92621-7 1-351-92620-9 1-315-25182-5
Descrizione fisica	1 online resource (271 pages)
Collana	Heritage, culture, and identity
Altri autori (Persone)	McCarthyMark, Dr.
Disciplina	305.891/62
Soggetti	National characteristics, Irish Heritage tourism - Ireland Historic sites - Ireland Memorials - Ireland SOCIAL SCIENCE - Discrimination & Race Relations SOCIAL SCIENCE - Minority Studies Ireland Historiography Ireland Anniversaries, etc
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Originally published 2005 by Ashgate Publishing.
Nota di contenuto	Historico-geographical explorations of Ireland's heritages : towards a critical understanding of the nature of memory and identity / Mark McCarthy -- Commemorative heritage and the dialectics of memory / Guy Beiner -- A lost heritage : the Connaught Rangers and multivocal Irishness / John Morrissey -- Memory and identity in 'Irish' Australia : constructing alterity in Belfast (Port Fairy), c. 1855-1873 / Lindsay Proudfoot and Dianne Hall -- Performing Irish-American heritage : the Irish historic pageant, New York, 1913 / Deborah Sugg Ryan -- Newgrange, heritage and the Irish nation : two moments of transformation / David C. Harvey -- Heritage, rhetoric, identity : critical reflections on the Carrickmines Castle controversy / Tadhg O'Keeffe -- Ireland and the house of invented memory / Hugh Maguire -- Remembering the creameries / Maura Cronin -- The tourism nexus :

national identity and the meanings of tourism since the Irish Civil War / Eric E. Zuelow -- Redefining nation, identity and tradition : the challenge for Ireland's national museums / Gemma Reid -- The construction of community through heritage in Northern Ireland / Elizabeth Crooke -- Identity crisis? heritage construction, tourism and place marketing in Ireland / Ruth McManus.

Sommario/riassunto

This book is the first sustained attempt to incorporate critical scholarship and thought at the cutting edge of contemporary geography, history and archaeology into the burgeoning field of Irish heritage studies. It seeks to illustrate the validity of multiple depictions of the Irish past, showing how scrutiny of heritage practices and meanings is so essential for illuminating our understanding of the present. Examining Ireland's heritages from a critical perspective that celebrates notions of heterogeneity and uniqueness, the distinguished contributors to this book scrutinise the multiplicity of complex relations between heritage, history, memory, commemoration, economy, and cultural identity within various historical, geographical and archaeological contexts. Using several examples and case studies, this book raises issues not only from a uniquely Irish perspective, but also investigates the memorialisation and marketing of the Irish past in overseas locations such as the USA and Australia.
