

1. Record Nr.	UNISALENTO991003285409707536
Autore	Salimbene : da Parma
Titolo	La bizzarra cronaca / di frate Salimbene ; trad. di Ferd. Bernini
Pubbl/distr/stampa	[Lanciano : Carabba], stampa 1926
Descrizione fisica	XXIV, 182 p. ; 18 cm
Collana	Scrittori italiani e stranieri. Autobiografie e memorie
Altri autori (Persone)	Bernini, Ferdinando
Disciplina	858
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910350292303321
Autore	Gan Woon Siong
Titolo	Gauge Invariance Approach to Acoustic Fields // by Woon Siong Gan
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-8751-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (179 pages) : illustrations
Disciplina	530.1435
Soggetti	Acoustical engineering Materials science Acoustics Mechanics Mechanics, Applied Solid state physics Engineering Acoustics Characterization and Evaluation of Materials Solid Mechanics Solid State Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico

Monografia

Nota di contenuto

Introduction -- History of Gauge Theory -- Coordinate Systems as the Framework of Equations -- Gauge Fields -- Covariant Derivative in Gauge Theory -- Lie Groups -- Global Gauge Invariance -- Local Gauge Invariance -- Gauge Fixing -- Noether's Theorem -- Spontaneous Symmetry Breaking and Phonon as the Goldstone Mode -- Time Reversal Acoustics and Super resolution -- Negative Refraction, Acoustical Metamaterials , and Acoustical Cloaking -- New Acoustics based on Metamaterials.

Sommario/riassunto

This book highlights the symmetry properties of acoustic fields and describes the gauge invariance approach, which can be used to reveal those properties. Symmetry is the key theoretical framework of metamaterials, as has been demonstrated by the successful fabrication of acoustical metamaterials. The book first provides the necessary theoretical background, which includes the covariant derivative, the vector potential, and invariance in coordinate transformation. This is followed by descriptions of global gauge invariance (isotropy), and of local gauge invariance (anisotropy). Sections on time reversal symmetry, reflection invariance, and invariance of finite amplitude waves round out the coverage. .