1. Record Nr. UNINA9910437887203321

Autore	Fuchs Helmut V
Titolo	Applied Acoustics: Concepts, Absorbers, and Silencers for Acoustical Comfort and Noise Control [[electronic resource]] : Alternative Solutions - Innovative Tools - Practical Examples / / by Helmut V. Fuchs
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	1-299-19752-3 3-642-29367-0
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (606 p.)
Disciplina	620.23
Soggetti	Acoustical engineering Acoustics Noise control Structural materials Civil engineering Electrical engineering Engineering Acoustics Noise Control Structural Materials Civil Engineering Electrical Engineering
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	Introduction -- The Low Frequency Problem -- Sound Absorption for Noise Control and Room-acoustical Design -- Passive Absorbers -- Panel Absorbers -- Helmholtz Resonators -- Interference Silencers -- Absorbers with Active Components -- Micro perforated Absorbers -- Integrated and Integrating Sound Absorbers.
Sommario/riassunto	The author gives a comprehensive overview of materials and components for noise control and acoustical comfort. Sound absorbers must meet acoustical and architectural requirements, which fibrous or

porous material alone can meet. Basics and applications are demonstrated, with representative examples for spatial acoustics, free-field test facilities and canal linings. Acoustic engineers and construction professionals will find some new basic concepts and tools for developments in order to improve acoustical comfort. Interference absorbers, active resonators and micro-perforated absorbers of different materials and designs complete the list of applications.