

1. Record Nr.	UNISA996418440603316
Autore	Garrett Steven L
Titolo	Understanding Acoustics [[electronic resource]] : An Experimentalist's View of Sound and Vibration / / by Steven L. Garrett
Pubbl/distr/stampa	Springer Nature, 2020 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-44787-1
Edizione	[2nd ed. 2020.]
Descrizione fisica	1 online resource (XLIII, 783 p. 413 illus., 93 illus. in color.)
Collana	Graduate Texts in Physics, , 1868-4513
Disciplina	534
Soggetti	Acoustics Acoustical engineering Mechanical engineering Engineering Acoustics Mechanical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1: Comfort for the Computationally Crippled -- Part I – Vibrations -- Chapter2: The Simple Harmonic Oscillator -- Chapter3: String Theory -- Chapter4: Elasticity of Solids -- Chapter5: Modes of Bars -- Chapter6: Membranes, Plates and Microphones -- Part 2 – Waves in Fluids -- Chapter7: Ideal Gas Laws -- Chapter8: Nondissipative Lumped Elements -- Chapter8: Nondissipative Lumped Elements -- Chapter9: Dissipative Hydrodynamics -- Chapter10: One-Dimensional Propagation -- Chapter11: Reflection, Transmission, and Refraction -- Chapter12: Radiation and Scattering -- Chapter13: Three-Dimensional Enclosures -- Chapter14: Attenuation of Sound -- Part3: Extensions -- Chapter15: Nonlinear Acoustics.
Sommario/riassunto	This open access textbook, like Rayleigh's classic Theory of Sound, focuses on experiments and on approximation techniques rather than mathematical rigor. The second edition has benefited from comments and corrections provided by many acousticians, in particular those who have used the first edition in undergraduate and graduate courses. For example, phasor notation has been added to clearly distinguish

complex variables, and there is a new section on radiation from an unbaffled piston. Drawing on over 40 years of teaching experience at UCLA, the Naval Postgraduate School, and Penn State, the author presents a uniform methodology, based on hydrodynamic fundamentals for analysis of lumped-element systems and wave propagation that can accommodate dissipative mechanisms and geometrically-complex media. Five chapters on vibration and elastic waves highlight modern applications, including viscoelasticity and resonance techniques for measurement of elastic moduli, while introducing analytical techniques and approximation strategies that are revisited in nine subsequent chapters describing all aspects of generation, transmission, scattering, and reception of waves in fluids. Problems integrate multiple concepts, and several include experimental data to provide experience in choosing optimal strategies for extraction of experimental results and their uncertainties. Fundamental physical principles that do not ordinarily appear in other acoustics textbooks, like adiabatic invariance, similitude, the Kramers-Kronig relations, and the equipartition theorem, are shown to provide independent tests of results obtained from numerical solutions, commercial software, and simulations. Thanks to the Veneklasen Research Foundation, this popular textbook is now open access, making the e-book available for free download worldwide. Provides graduate-level treatment of acoustics and vibration suitable for use in courses, for self-study, and as a reference Highlights fundamental physical principles that can provide independent tests of the validity of numerical solutions, commercial software, and computer simulations Demonstrates approximation techniques that greatly simplify the mathematics without a substantial decrease in accuracy Incorporates a hydrodynamic approach to the acoustics of sound in fluids that provides a uniform methodology for analysis of lumped-element systems and wave propagation Emphasizes actual applications as examples of topics explained in the text Includes realistic end-of-chapter problems, some including experimental data, as well as a Solutions Manual for instructors. Features “Talk Like an Acoustician” boxes to highlight key terms introduced in the text.

2. Record Nr.	UNISALENT0991002437519707536
Autore	Mor, Antonio
Titolo	Christian Beck / Antonio Mor
Pubbl/distr/stampa	Roma : Studium, stampa 1953
Descrizione fisica	109 p. ; 25 cm
Disciplina	843.912
Soggetti	Beck, Christian - Biografia
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
3. Record Nr.	UNISALENT0991002425769707536
Autore	Jodogne, Omer
Titolo	Le fabliau / par Omer Jodogne
Pubbl/distr/stampa	Turnhout : Brepols, 1975
Descrizione fisica	63 p. ; 24 cm
Collana	Typologie des sources du Moyen Âge occidental ; 13
Altri autori (Persone)	Payen, Jean Charles <1931-1984>
Disciplina	398.209
Soggetti	Favole - Medioevo Storia medievale - Fonti
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Sul front.: Le lai narratif / par Jean Charles Payen