

1. Record Nr.	UNINA9910480654803321
Autore	Brekhovskikh Leonid M
Titolo	Acoustics of Layered Media I [[electronic resource] ] : Plane and Quasi-Plane Waves // by Leonid M. Brekhovskikh, Oleg A. Godin
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1990
ISBN	3-642-52369-2
Edizione	[1st ed. 1990.]
Descrizione fisica	1 online resource (X, 240 p.)
Collana	Springer Series on Wave Phenomena, , 0931-7252 ; ; 5
Disciplina	534/.2
Soggetti	Acoustics Geophysics Oceanography Lasers Photonics Engineering Geophysics/Geodesy Optics, Lasers, Photonics, Optical Devices Engineering, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Basic Equations for Wave Processes in Fluids and Solids -- 1.1 Sound in Layered Fluids -- 1.2 Harmonic Waves -- 1.3 Elastic Waves in Isotropic Solids -- 2. Plane Waves in Discretely Layered Fluids -- 2.1 Inhomogeneous Plane Waves. Energy of Sound Waves -- 2.2 Reflection at the Interface of Two Homogeneous Media -- 2.3 Locally Reacting Surfaces -- 2.4 Reflection from a Plane Layer -- 2.5 Reflection and Transmission Coefficients for an Arbitrary Number of Layers -- 2.6 Moving Layers. Impedance of Harmonic Waves in Moving Media -- 3. Monochromatic Plane-Wave Reflection from Continuously Layered Media -- 3.1 General Relations -- 3.2 Solvable Profiles $k(z)$ from the Confluent Hypergeometric Equation -- 3.3 Solvable Profiles Obtained from the Hypergeometric Equation -- 3.4 Plane-Wave Reflection from an Epstein Layer -- 3.5 Reflection of a Plane Wave from a Half-Space with a Linear Law for the Squared Refraction Index -- 3.6 Other Cases

with Exact Solutions for Normal Incidence -- 3.7 Exact Solutions for Media with Continuous Stratification of Sound Velocity, Density, and Flow Velocity -- 4. Plane-Wave Reflection from the Boundaries of Solids -- 4.1 Plane Waves in Elastic Half-Spaces with a Free Boundary -- 4.2 Reflection from Solid-Solid and Solid-Fluid Interfaces -- 4.3 Reflection from a System of Solid Layers -- 4.4 Surface and "Leaky" Waves -- 5. Reflection of Sound Pulses -- 5.1 General Relations. Law of Conservation of Integrated Pulse -- 5.2 Change of Pulse Shape upon Total Internal Reflection from a Boundary Between Two Homogeneous Media -- 5.3 Total Reflection of a Pulse in Continuously Layered Media -- 6. Universal Properties of the Plane-Wave Reflection and Transmission Coefficients -- 6.1 Symmetry with Respect to Reversion of the Wave Path -- 6.2 Analytic Properties -- 6.3 Nonreflecting Layers -- 7. Acoustic Waves in Absorbing Anisotropic Media -- 7.1 Absorption of Sound -- 7.2 Anisotropic Elastic Media. Gulyaev-Bluestein Waves -- 7.3 Elastic Properties of Finely Layered Media -- 8. Geometrical Acoustics. WKB Approximation -- 8.1 The WKB Approximation and Its Range of Validity -- 8.2 Physical Meaning of the Approximate Solutions -- 8.3 Another Approach to the Ray Acoustics Approximation -- 9. The Sound Field in the Case of Turning Horizons and Resonance Interaction with a Flow -- 9.1 Reference Equation Method -- 9.2 Sound Field in the Vicinity of a Turning Point -- 9.3 Reflection from a "Potential Barrier" -- 9.4 Amplification of Sound in an Inhomogeneous Flow -- 10. Sound Reflection from a Medium with Arbitrarily Varying Parameters -- 10.1 Differential Equations for Reflection Coefficient and Impedance of a Sound Wave -- 10.2 Reflection from a Thin Inhomogeneous Layer -- 10.3 Method of Successive Approximations for Weakly Reflecting Layers -- 10.4 Reflection at Interfaces in Continuously Layered Media -- References.

---

## Sommario/riassunto

This monograph is devoted to the systematic presentation of the theory of sound-wave propagation in layered structures. These structures can be man-made, such as ultrasonic filters, lenses, surface-wave delay lines, or natural media, such as the ocean and the atmosphere, with their marked horizontal stratification. A related problem is the propagation of elastic (seismic) waves in the earth's crust. These topics have been treated rather completely in the book by L. M. Brekhovskikh, *Waves in Layered Media*, the English version of the second edition of which was published by Academic Press in 1980. Due to progress in experimental and computer technology it has become possible to analyze the influence of factors such as medium motion and density stratification upon the propagation of sound waves. Much attention has been paid to propagation theory in near-stratified media, i.e., media with small deviations from strict stratification. Interesting results have also been obtained in the fields of acoustics which had been previously considered to be "completely" developed. For these reasons, and also because of the inflow of researchers from the related fields of physics and mathematics, the circle of persons and research groups engaged in the study of sound propagation has rather expanded. Therefore, the appearance of a new summary review of the field of acoustics of layered media has become highly desirable. Since *Waves in Layered Media* became quite popular, we have tried to retain its positive features and general structure.

---

2. Record Nr.	UNINA9910461489003321
Titolo	Ancient forgiveness // edited by Charles L. Griswold, David Konstan [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2012
ISBN	1-107-22274-5 1-139-17912-8 1-280-77342-1 9786613684196 1-139-18862-3 1-139-18502-0 1-139-18271-4 1-139-18734-1 1-139-18993-X 0-511-97865-0
Descrizione fisica	1 online resource (xv, 260 pages) : digital, PDF file(s)
Disciplina	179/.9
Soggetti	Forgiveness Forgiveness - Religious aspects - Christianity Forgiveness - Religious aspects - Judaism
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 237-252) and index.
Nota di contenuto	; I. The territory philosophically considered -- What is forgiveness? / Adam Morton -- ; II. Forgiveness among the Greeks -- Assuaging rage : remorse, repentance, and forgiveness in the classical world / David Konstan -- Achilles, Psammenitus, and Antigone : forgiveness in Homer and beyond / Page duBois -- All in the family : forgiveness and reconciliation in new comedy / Kathryn Gutzwiller -- ; III. Forgiveness among the Romans -- The anger of tyrants and the forgiveness of kings / Susanna Morton Braund -- Gender and forgiveness in the early Roman empire / Kristina Milnor -- "To forgive is divine" : gods as models of forgiveness in late republican and early imperial Rome / Zsuzsanna Varhelyi -- ; IV. Judaic and Christian forgiveness -- Mercy,

repentance, and forgiveness in ancient Judaism / Michael L. Morgan --  
A man had two sons : the question of forgiveness in Luke 15 / Peter S.  
Hawkins -- Jesus' conditional forgiveness / Jennifer Wright Knust --  
Forgiveness in patristic philosophy : the importance of repentance and  
the centrality of grace / Ilaria L.E. Ramelli -- Forgiveness and perfection  
: Maimonides, Aquinas, and medieval departures from Aristotle /  
Jonathan Jacobs.

---

### Sommario/riassunto

In this book, eminent scholars of classical antiquity and ancient and medieval Judaism and Christianity explore the nature and place of forgiveness in the pre-modern Western world. They discuss whether the concept of forgiveness, as it is often understood today, was absent, or at all events more restricted in scope than has been commonly supposed, and what related ideas (such as clemency or reconciliation) may have taken the place of forgiveness. An introductory chapter reviews the conceptual territory of forgiveness and illuminates the potential breadth of the idea, enumerating the important questions a theory of the subject should explore. The following chapters examine forgiveness in the contexts of classical Greece and Rome; the Hebrew Bible, the Talmud, and Moses Maimonides; and the New Testament, the Church Fathers, and Thomas Aquinas.

---