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Autore	Gunn, Sisvan William A.
Titolo	Concepts and practice of humanitarian medicine / edited by S. William A. Gunn, Michele Masellis
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Titolo uniforme	Concepts and practice of humanitarian medicine
ISBN	978-0-387-72263-4
Descrizione fisica	XIX, 324 p. ; 24 cm
Altri autori (Persone)	Masellis, Michele
Disciplina	362.01
Collocazione	362-C/3
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910254086303321
Autore	Ockendon Hilary
Titolo	Waves and Compressible Flow / / by Hilary Ockendon, John R. Ockendon
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2016
ISBN	1-4939-3381-7
Edizione	[2nd ed. 2016.]
Descrizione fisica	1 online resource (VII, 243 p. 60 illus. in color.)
Collana	Texts in Applied Mathematics, , 0939-2475 ; ; 47
Disciplina	532.0535
Soggetti	Mathematical models Fluid mechanics Field theory (Physics) Mathematical physics Mathematical Modeling and Industrial Mathematics Engineering Fluid Dynamics Classical and Continuum Physics Mathematical Physics
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- The Equations of Inviscid Compressible Flow -- Models for Linear Wave Propagation -- Theories for Linear Waves -- Nonlinear Waves in Fluids -- Shock Waves -- Epilogue.
Sommario/riassunto	Now in its second edition, this book continues to give readers a broad mathematical basis for modelling and understanding the wide range of wave phenomena encountered in modern applications. New and expanded material includes topics such as elastoplastic waves and waves in plasmas, as well as new exercises. Comprehensive collections of models are used to illustrate the underpinning mathematical methodologies, which include the basic ideas of the relevant partial differential equations, characteristics, ray theory, asymptotic analysis, dispersion, shock waves, and weak solutions. Although the main focus is on compressible fluid flow, the authors show how intimately gasdynamic waves are related to wave phenomena in many other areas of physical science. Special emphasis is placed on the development of physical intuition to supplement and reinforce analytical thinking. Each

chapter includes a complete set of carefully prepared exercises, making this a suitable textbook for students in applied mathematics, engineering, and other physical sciences. Reviews of the first edition: "This book ... is an introduction to the theory of linear and nonlinear waves in fluids, including the theory of shock waves. ... is extraordinarily accurate and free of misprints I enjoyed reading this book. ... most attractive and enticing appearance, and I'm certain that many readers who browse through it will wish to buy a copy. The exercises ... are excellent. ... A beginner who worked through these exercises would not only enjoy himself or herself, but would rapidly acquire mastery of techniques used...in JFM and many other journals..." (C. J. Chapman, Journal of Fluid Mechanics, Vol. 521, 2004) "The book targets a readership of final year undergraduates and first year graduates in applied mathematics. In the reviewer's opinion, it is very well designed to catch the student's interest ... while every chapter displays essential features in some important area of fluid dynamics. Additionally, students may practice by solving 91 exercises. This volume is mainly devoted to inviscid flows. ... The book is very well written." (Denis Serre, Mathematical Reviews, 2004) .
