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Titolo	Fluid and Thermodynamics : Volume 1: Basic Fluid Mechanics // by Kolumban Hutter, Yongqi Wang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-33633-9
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XIX, 639 p. 340 illus., 109 illus. in color.)
Collana	Advances in Geophysical and Environmental Mechanics and Mathematics, , 1866-8348
Disciplina	620.106
Soggetti	Geophysics Mathematical physics Fluid mechanics Fluids Geophysics/Geodesy Mathematical Applications in the Physical Sciences Engineering Fluid Dynamics Fluid- and Aerodynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Hydrostatics -- Hydrodynamics of Ideal Liquids -- Conservation of Angular Momentum -- Vorticity -- An Almanac of Simple Flow Problems of Ideal Fluids -- Function-Theoretical Methods Applied to Plane Potential Flows -- Viscous Fluids -- Simple Two- and Three-Dimensional Flow Problems of the Navier-Stokes Equations -- Simple Solutions of Boundary Layer Equations -- Pipe Flows.
Sommario/riassunto	This first volume discusses fluid mechanical concepts and their applications to ideal and viscous processes. It describes the fundamental hydrostatics and hydrodynamics, and includes an almanac of flow problems for ideal fluids. The book presents numerous exact solutions of flows in simple configurations, each of which is constructed and graphically supported. It addresses ideal, potential, Newtonian and non-Newtonian fluids. Simple, yet precise solutions to

special flows are also constructed, namely Blasius boundary layer flows, matched asymptotics of the Navier-Stokes equations, global laws of steady and unsteady boundary layer flows and laminar and turbulent pipe flows. Moreover, the well-established logarithmic velocity profile is criticised.

2. Record Nr.	UNINA9910892966403321
Titolo	Physis : revista de saúde coletiva
Pubbl/distr/stampa	RJ, : Instituto de Medicina Social, da Universidade do Estado do Rio de Janeiro, em co-edição com a Relume-Dumará Editores e o Centro de Estudo e Pesquisa em Saúde Coletiva, [1991]-
ISSN	1809-4481
Descrizione fisica	1 online resource
Disciplina	362.1/05
Soggetti	Public health Social medicine Public health - Brazil Social medicine - Brazil Public Health Social Medicine Periodical Periodicals. Brazil
Lingua di pubblicazione	Portoghese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Title from cover. Each issue also has a distinctive title. Published, <2003->: Rio de Janeiro, RJ : Instituto de Medicina Social da Universidade do Estado do Rio de Janeiro, em co-edição com o Centro de Estudo e Pesquisa em Saúde Coletiva.

