

1.	Record Nr.	UNINA990002624570403321
	Autore	Uhrich, R.
	Titolo	Super marches et Usines de distribution / d i Uhrich
	Pubbl/distr/stampa	Parigi : Plan, 1962
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	Collocazione	4-8-197-TI
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910962860003321
	Autore	Chorin Alexandre Joel
	Titolo	A Mathematical Introduction to Fluid Mechanics / / by Alexandre J. Chorin, Jerrold E. Marsden
	Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 1990
	ISBN	1-4684-0364-8
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	Descrizione fisica	1 online resource (IX, 168p. 86 illus.)
	Collana	Texts in Applied Mathematics, , 2196-9949 ; ; 4
	Disciplina	510 532
	Soggetti	Mathematics
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	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	1 The Equations of Motion -- 1.1 Euler's Equations -- 1.2 Rotation and Vorticity -- 1.3 Navier-Stokes Equations -- 2 Potential Flow and Slightly Viscous Flow -- 2.1 Potential Flow -- 2.2 Boundary Layers -- 2.3 Vortex Sheets -- Addendum: Remarks on Dynamics and Bifurcation -- 3 Gas Flow in One Dimension -- 3.1 Characteristics -- 3.2 Shocks -- 3.3 The Riemann Problem -- 3.4 Combustion Waves -- Vector Identities.
	Sommario/riassunto	Mathematical Introduction to Fluid Mechanics presents some selected

highlights of currently interesting topics in fluid mechanics in a compact form, as well as providing a concise and appealing exposition of the basic theory of fluid mechanics. The first chapter contains an elementary derivation of the equations, and the concept of vorticity is introduced. The second chapter contains a discussion of potential flow, vortex motion, and boundary layers. A construction of boundary layers using vortex sheets and random walks is presented. Chapter 3 contains an analysis of one-dimensional gas flow from a mildly modern point of view. Weak solution, Riemann problems, Glimm's scheme, and combustion waves are covered.
