

1.	Record Nr.	UNINA990004746650403321
	Titolo	Italian Renaissance studies : a tribute to the late Cecilia M. Ady / edited by E. F. Jacob
	Pubbl/distr/stampa	London : Faber and Faber, 1960
	Descrizione fisica	507 p., [12] c. di tav. ; 23 cm
	Disciplina	945.05
	Locazione	FLFBC DECSE
	Collocazione	945.05 JAC 1 SE 08.01.013-
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA990007541200403321
	Autore	Appelius, Mario <1892-1946>
	Titolo	India / M. Apellius
	Pubbl/distr/stampa	Milano : Alpes, 1925
	Descrizione fisica	501 p., [23] c. di ill. ; 19 cm
	Locazione	ILFGE
	Collocazione	G-05-021
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

3. Record Nr.	UNINA9910299584103321
Autore	Deng Yongbo
Titolo	Topology Optimization Theory for Laminar Flow : Applications in Inverse Design of Microfluidics / / by Yongbo Deng, Yihui Wu, Zhenyu Liu
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-4687-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XI, 250 p. 181 illus., 97 illus. in color.)
Disciplina	620.1064
Soggetti	Fluid mechanics Amorphous substances Complex fluids Mathematical optimization Physics Nanotechnology Engineering Fluid Dynamics Soft and Granular Matter, Complex Fluids and Microfluidics Optimization Numerical and Computational Physics, Simulation Nanotechnology and Microengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Topology optimization for unsteady flows -- Topology optimization for fluid flows with body forces -- Topology optimization for two-phase flows -- Combination of topology optimization and optimal control method -- Inverse design of microfluidics using topology optimization.
Sommario/riassunto	This book presents the topology optimization theory for laminar flows with low and moderate Reynolds numbers, based on the density method and level-set method, respectively. The density-method-based theory offers efficient convergence, while the level-set-method-based theory can provide an accurate mathematical expression of the structural boundary. Unsteady, body-force-driven and two-phase

properties are basic characteristics of the laminar flows. The book discusses these properties, which are typical of microfluidics and one of the research hotspots in the area of Micro-Electro-Mechanical Systems (MEMS), providing an efficient inverse design approach for microfluidic structures. To demonstrate the applications of this topology optimization theory in the context of microfluidics, it also investigates inverse design for the micromixer, microvalve and micropump, which are key elements in lab-on-chip devices.
