

1. Record Nr.	UNINA9910451639103321
Autore	Tabeling P
Titolo	Introduction to microfluidics [[electronic resource] /] / Patrick Tabeling ; translated by Suelin Chen
Pubbl/distr/stampa	Oxford, U.K. ; ; New York, : Oxford University Press, 2005
ISBN	1-280-90404-6 0-19-152455-7 1-4294-7042-9
Descrizione fisica	1 online resource (312 p.)
Disciplina	629.8/042
Soggetti	Fluidic devices Microfluidics Microelectromechanical systems Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Originally published Paris : Editions Belin, 2003.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CONTENTS; ACKNOWLEDGEMENTS; Introduction; 1 Physics at the micrometric scale; 2 Hydrodynamics of microfluidic systems; 3 Diffusion, mixing, and separation in microsystems; 4 The electrohydrodynamics of microsystems; 5 Microfluidics and thermal transfers; 6 An introduction to microfabrication; 7 Some microfluidic devices; CONCLUSION; INDEX
Sommario/riassunto	Microfluidics is a young discipline which enables scientists and engineers to handle fluids in the biochips of the future. The book is an introduction to this discipline. It presents in simple terms the most important notions of the domain: how fluids move on the chip, conveying materials, molecules, electrical charges, and heat. - ; Microfluidics deals with fluids flowing in miniaturized systems. It is a young discipline, which is expected to substantially expand over the next few years, stimulated by the considerable development of applications in the pharmaceutical, biomedical and chemical en