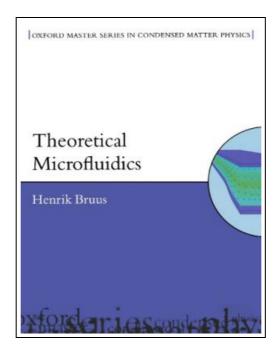
Theoretical Microfluidics



Filesize: 8.18 MB

Reviews

Excellent eBook and useful one. It can be rally fascinating throgh looking at period. You can expect to like just how the blogger create this publication.

(Myrl Schmitt)

THEORETICAL MICROFLUIDICS



Oxford University Press. Paperback. Book Condition: new. BRAND NEW, Theoretical Microfluidics, Henrik Bruus, Microfluidics is a young and rapidly expanding scientific discipline, which deals with fluids and solutions in miniaturized systems, the so-called lab-on-a-chip systems. It has applications in chemical engineering, pharmaceutics, biotechnology and medicine. As the lab-on-a-chip systems grow in complexity, a proper theoretical understanding becomes increasingly important. The basic idea of the book is to provide a self-contained formulation of the theoretical framework of microfluidics, and at the same time give physical motivation and examples from lab-on-a-chip technology. After three chapters introducing microfluidics, the governing equations for mass, momentum and energy, and some basic flow solutions, the following 14 chapters treat hydraulic resistance/compliance, diffusion/dispersion, time-dependent flow, capillarity, electro- and magneto-hydrodynamics, thermal transport, two-phase flow, complex flow patterns and acousto-fluidics, as well as the new fields of opto- and nano-fluidics. Throughout the book simple models with analytical solutions are presented to provide the student with a thorough physical understanding of order of magnitudes and various selected microfluidic phenomena and devices. The book grew out of a set of well-tested lecture notes. It is with its many pedagogical exercises designed as a textbook for an advanced undergraduate or first-year graduate course. It is also well suited for self-study.



Read Theoretical Microfluidics Online Download PDF Theoretical Microfluidics

Other eBooks



Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback

Book Condition: Brand New. Book Condition: Brand New.

Save eBook »



Baby 411 Clear Answers and Smart Advice for Your Babys First Year by Ari Brown and Denise Fields 2005

Book Condition: Brand New. Book Condition: Brand New.

Save eBook »



Baby 411 Clear Answers and Smart Advice for Your Babys First Year by Ari Brown and Denise Fields 2009 Paperback

Book Condition: Brand New. Book Condition: Brand New.

Save eBook »



Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large

 $Madelyn\ D\ R\ Books.\ Paperback.\ Book\ Condition:\ New.\ Paperback.\ 106\ pages.\ Dimensions:\ 9.0 in.\ x\ 6.0 in.\ x\ 6.0 in.\ x\ 6.3 in. This\ book\ is\ about\ my\ cousin,\ Billy\ a\ guy\ who\ taught\ me\ a\ lot\ over\ the\ years\ and\ who...$

Save eBook »



A Year Book for Primary Grades; Based on Froebel's Mother Plays

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can download...

Save eBook »