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 engineering domains. The book is an introduction to this discipline. The first chapter presents a short historical background and discusses the main perspectives of the domain, at economical and scientific levels. Then the physics of miniaturization and the fluid mechanics of microflows are discussed. In the following three chapters, dispersion, electrical and thermal phenomena in miniaturized devices are presented. A brief introduction to microfabrication techniques is given in Chap VI and the book concludes by providing a few examples of microfluidic systems. The book is written in a simple, direct, pedagogical way; it emphasizes concepts and understanding, rather than technical detail. It offers a cross-disciplinary view of the field, embracing biological, chemical, physical and engineering perspectives. The book will provide the reader with the concepts, methods and data they need to grasp situations which typically arise in microfluidic systems.

Fundamentals and Applications of Microfluidics, Nam-Trung Nguyen, Steven T. Wereley, Jan 1, 2002, Technology & Engineering, 471 pages. Annotation. This introduction to the emerging field of microfluidics explains how to take advantage of the performance benefits of microfluidics and serves as a reference for.


Suspended channels and channel actuators for microfluidic applications, John Matthew Chong, 2000, Science, 318 pages.

Microfluidics Theory and Applications, Ivan A. Kuznetsov, 2010, Science, 185 pages. Microfluidics deals with the behaviour, precise control and manipulation of fluids that are geometrically constrained to a small, typically sub-millimetre, scale. It is a.


CMOS Biotechnology, Hakho Lee, Donhee Ham, Robert M. Westervelt, May 4, 2007, Technology & Engineering, 400 pages. CMOS Biotechnology reviews the recent research and developments joining CMOS technology with biology. Written by leading researchers these chapters delve into four areas.
Microfluidics for Biotechnology, Jean Berthier, Pascal Silberzan, 2010, Science, 483 pages. The application of microfluidics to biotechnology is an exciting new area that has already begun to revolutionize how researchers study and manipulate macromolecules like DNA.

Principles of Condensed Matter Physics, P. M. Chaikin, T. C. Lubensky, Sep 28, 2000, Science, 699 pages. This successful and widely-reviewed book covering the physics of condensed matter systems is now available in paperback.


Methods in Bioengineering Biomicrofabrication and Biomicrofluidics, Jeffrey D. Zahn, Oct 1, 2009, Bioengineering, 352 pages. This unique volume presents leading-edge microfluidics methods used to handle, manipulate, and analyze cells, particles, and biological components (e.g., proteins and DNA) for.

Microfluidics, Stéphane Colin, May 6, 2013, Technology & Engineering, . The goal of this book is to provide engineers and researchers the tools necessary for modelling, experimenting, and simulating these microflows as a preliminary step for.

Highly Integrated Microfluidics Design, Dan E. Angelescu, Jan 1, 2011, Technology & Engineering, 255 pages. The recent development of microfluidics has lead to the concept of lab-on-a-chip, where several functional blocks are combined into a single device that can perform complex.


Theoretical Microfluidics, Henrik Bruus, 2008, Business & Economics, 346 pages. Covering fluid dynamics and how to control flows and solutions in microsystems with various external fields, this text contains a broad range of exercises which enable students.

Microfluidics: History, Theory and Applications, William B. J. Zimmerman, Jun 27, 2006, Mathematics, 304 pages. Microfluidics is a microtechnological field dealing with the precise transport of fluids (liquids or gases) in small amounts (e.g. microliters, nanoliters or even picoliters.


The Navy SEAL's Bride, Soraya Lane, Aug 7, 2012, Fiction, 192 pages. "Ex-navy SEAL Tom Cartwright is struggling to return to civilian life. His little niece is his only ray of sunshine and he agrees to be the 'show' in her school show-and-tell"

Introduction to Microfluidics, Patrick Tabeling, 312 pages

Conducting Elgar, Norman Del Mar, 1998, Music, 270 pages. This is the final book in the series on orchestral conducting that Norman Del Mar had been writing until his death in February 1994. As with the previous books, each chapter is

Jocasta Carr, Movie Star, Roy Gerrard, 1992, Actors, 32 pages. When her canine companion and co-star is lured away by an unsavory movie producer, Jocasta Carr flies off on an adventurous journey to rescue her beloved dog.

Spiritual Canticle And Poems, Saint John of the Cross, R.H.J. Steuart, Sep 1, 1999, Religion, 484 pages. The Spiritual Canticle is one of St John's greatest works. Using the simple metaphor of the spouse and the bride, he sketches a series of dialogues between God and the soul.

The Richard Tullis family of Columbiana County, Ohio, Carolyn Miller, Patricia Tullys, 1989, History, 405 pages.

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An Introduction to Biblical Hebrew Syntax, Bruce K. Waltke, Michael Patrick O'Connor, 1990, Bible, 765 pages

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Sailing days stories and poems about sailors and the sea, Amy McKay, Sep 1, 1998, Juvenile Fiction, 127 pages. Offers a collection of selections, poems, and stories about sailing ships, shipwrecks, pirates, sailors' legends, and other aspects of life aboard ship, by Herman Melville
Drafting Problem Layouts, for Courses in Drafting for Engineers, Engineering Drafting, Engineering Drawing, Mechanical Drawing, etc., Carl Lars Svensen, Charles Henry Schumann, William Ezra Street, 1939, Mechanical drawing, 224 pages
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Local History, Its Interest and Value, Lincolnshire Local History Society, 1931, History, 31 pages Rip the Page! Adventures in Creative Writing, Karen Benke, 2010, Juvenile Nonfiction, 246 pages. Presents exercises and wordplay experiments to teach amateur writers how to enjoy writing creatively, and includes tips for finding inspiration, returning to old ideas with Via 150 signed articles, Green Cities: An A-to-Z Guide provides an overview of the key concepts that urban planners, policy makers, architects, engineers, and developers use to. Describes the duties and responsibilities of the President of the United States, and details the requirements for attaining that position. Fiction. ROUGHHOUSE, Thaddeus Rutkowski's first book, gives a harrowingly deadpan account of the tedium, casual violence, and deviant sex lacing together a surreal, semi-rural.

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How Santa got his job, Stephen Krensky, S. D. Schindler, Oct 1, 1998, Juvenile Fiction, 32 pages. Santa tries his hand at many jobs before finding the perfect job as the world's greatest gift giver.

Soldier, Ask Not A Novel in The Chide Cyle, Gordon R. Dickson, Feb 15, 1998, Fiction, 320 pages. Jamethon Black must face a deadly enemy with the knowledge that a defeat will forever separate him from the only woman he has ever loved. Reprint

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How to Teach Fiction Writing at Key Stage 2, Pie Corbett, 2001, Education, 52 pages. A practical manual for teachers focuses on key aspects of developing children's storywriting and includes creative ideas and activities.

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The Human Record: Sources of Global History, Volume II: Since 1500, Alfred Andrea, James Overfield, Jan 1, 2011, History, 576 pages. THE HUMAN RECORD is the leading primary source reader for the World History course, providing balanced coverage of the global past. are often paired or grouped together forMakers of an American immigrant legacy essays in honor of Kenneth O. Bjork, Norwegian-American Historical Association, 1980, Norwegian Americans, 223 pages

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Organic Acidurias Proceedings of the Ninth Symposium of the Society for the Study of Inborn Errors of Metabolism, C. Toothill, 1972, Medical, 182 pages
McMurdo's Account of Sind, James Macmurdoo, Mubarak Ali Khan, 1985, Sind (Pakistan), 124 pages
Patrick Tabeling 2010 The Concept of Nature in Literature: Analysis of Doris Lessing's "The De Wets Come to Kloof Grange", Anonym, 2010, , 32 pages. Essay from the year 2009 in the subject English - Literature, Works, grade: 2, University of Munster, language: English, abstract: Ecocriticism is still on its academic margins In a distant future where humans have journeyed throughout space and formed a ruling body called the Empire, Dr. Gretchen Andersen is called upon to discover the whereabouts of. Columbus, Magellan, and Drake are focused upon in this account of the early discovery voyages south of the Caribbean. Bibilogs.
Antiquity 3, Volume 3, Toni Hurley, Philippa Medcalf, Christine Murray, Jan Rolph, 2005, Civilization, Ancient, 252 pages. This is a companion volume to Antiquity 1 and Antiquity 2, written for the revised Ancient History Stage 6 Syllabus. It suits the revised HSC course to be examined for.

The Tale of Anabelle Hedgehog, Stephen Lawhead, Mar 21, 2003, Animals, 111 pages. At a meeting of the Riverbank animals, Anabelle Hedgehog volunteers to drive away an unwanted visitor--a large yellow dog.

Understanding India’s New Political Economy A Great Transformation?, Sanjay Ruparelia, Sanjay Reddy, John Harriss, Stuart Corbridge, Mar 9, 2011, Social Science, 288 pages. This textbook addresses the three most important large-scale transformations that have reshaped India since 1989: the advent of liberal economic reform, the ascendance of Hindu


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Carlo Gianferro: gypsy interiors contemporary Roma portraits, Carlo Gianferro, 2009, Photography, 128 pages
Modern agricultural mechanics, Stanley R. Burke, Truman Jeremiah Wakeman, Jan 1, 1992, Technology & Engineering, 690 pages

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Miracles, mysteries, and prayer, Volume 2, Philip S. Berg, Apr 28, 2006, Literary Collections, 224 pages. Why do our prayers seem to go unanswered? Do miracles really exist? Can we ever know all the mysteries of our universe? In Miracles, Mysteries and Prayer, Rav Berg takes us on.


Dictionary of Nursing Theory and Research, Bethel Ann Powers, Thomas R. Knapp, 2005, Medical, 210 pages. An essential reference, particularly for students who encounter nursing theory and research courses in their educational programs. In her foreword... Afaf Meleis states that... The Dynasts, Thomas Hardy, Dec 21, 2007, Fiction, 440 pages A First Poetry Book, Pie Corbett, Gaby Morgan, Sep 13, 2012, Juvenile Nonfiction, 336 pages. The first in a brand-new series of poetry books created with teachers and students in mind, but packed with glorious poems that will appeal to a wide audience. This topic based Orlando, a young nobleman in Elizabeth's England, awaits a visit from the Queen. Now, an ambassador in Costantinople, awakes to find that he is a woman.
At this Theatre 100 Years of Broadway Shows, Stories and Stars, Louis Botto, Robert Viagas, 2002, Performing Arts, 359 pages. "Contains the informal history of forty theatres that were built, as either legitimate houses or movie palaces and that are currently operating as legitimate theatres"--p. xiii


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Collected plays with an introduction, Arthur Miller, 1957, Drama Techniques Using Slips, John Mathieson, Apr 30, 2010, Art, 144 pages. This book looks at the contemporary use of slip as a decoration, such as sponging, marbling, brushing on, using stencils, trailing, sgraffito and inlay amongst others. It looks at techniques using slips.

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