

1. Record Nr.	UNINA9910455498103321
Autore	Chatterjee D
Titolo	Topology [[electronic resource]] : general and algebraic / / D. Chatterjee
Pubbl/distr/stampa	New Delhi, : New Age International (P) Ltd., Publishers, c2007
ISBN	1-282-12890-6 9786612128905 81-224-2704-9
Descrizione fisica	1 online resource (176 p.)
Disciplina	513.83 629.8
Soggetti	Topology Algebraic topology Topological spaces Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Preface; Contents; Part I; Chapter 1 Sets, Relations and Functions; Chapter 2 Topologies of R and R ² ; Chapter 3 Metric Space; Chapter 4 Topological Spaces; Chapter 5 Separation Axioms; Chapter 6 Compactness; Chapter 7 Connectedness; Part II; Chapter 1 Algebraic Preliminaries; Chapter 2 Homotopy Theory; Chapter 3 Compact Open Topology; Chapter 4 Higher Homotopy Groups; Chapter 5 Surfaces, Manifolds and CW Complexes; Chapter 6 Simplicial Homology Theory; Chapter 7 Singular Homology Theory; Chapter 8 Manifold Analysis; Chapter 9 Fibre Bundles; Bibliography
Sommario/riassunto	About the Book: This book provides exposition of the subject both in its general and algebraic aspects. It deals with the notions of topological spaces, compactness, connectedness, completeness including metrizability and compactification, algebraic aspects of topological spaces through homotopy groups and homology groups. It begins with the basic notions of topological spaces but soon going beyond them reaches the domain of algebra through the notions of homotopy, homology and cohomology. How these approaches work in

harmony is the subject matter of this book. The book finally arrives at the

2. Record Nr.	UNINA9910782299603321
Autore	Paik Philip Y.
Titolo	Adaptive cooling of integrated circuits using digital microfluidics / / Philip Y. Paik, Krishnendu Chakrabarty, Vamsee K. Pamula
Pubbl/distr/stampa	Norwood, Massachusetts : , : Artech House, , ©2007 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2007]
ISBN	1-59693-139-6
Descrizione fisica	1 online resource (203 p.)
Collana	Artech House integrated microsystems series
Altri autori (Persone)	ChakrabartyKrishnendu PamulaVamsee K
Disciplina	620.106 621.3815
Soggetti	Integrated circuits - Cooling Integrated circuits - Design and construction Microfluidics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Adaptive Cooling of Integrated Circuits Using Digital Microfluidics; Contents 5; Preface 11; Chapter 1 Thermal Management of Integrated Circuits 15; Chapter 2 Cooling Devices for Integrated Circuits 33; Chapter 3 Adaptive Hot-Spot Cooling Principles and Design 49; Chapter 4 Technology Development 77; Chapter 5 Thermal Effects of Digital Microfluidic Devices 105; Chapter 6 Flow-Through-Based Adaptive Cooling 117; Chapter 7 Programmable Thermal Switch-Based Adaptive Cooling 145; Chapter 8 Concluding Remarks 161; Appendix A Image Analysis Software Using MATLAB 167.
Sommario/riassunto	Thanks to increasing power consumption and component density, localized?hot spots? are becoming a serious challenge in IC (integrated circuit) chip design? so serious, in fact, that Intel recently had to yank a circuit because it was literally burning. For IC engineers grappling with high power dissipation and thermal issues, new droplet-based cooling

techniques using digital microfluidics technology could provide the solution. This definitive guide paves the way, with design and implementation methodologies and prototypes for utilizing this groundbreaking technology. After reviewing cooling.
