1. Record Nr. UNINA9910797030003321

Autore	Badilescu Simona
Titolo	Biomems : science and engineering perspectives / / by Simona Badilescu and Muthukumaran Packirisamy
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , [2016] ©2011
ISBN	1-4398-9349-7 0-429-06674-0 1-4398-1700-6 1-4398-9116-8
Edizione	[First edition.]
Descrizione fisica	1 online resource (336 p.)
Disciplina	660.6
Soggetti	BioMEMS
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 at the end of each chapters.
Nota di contenuto	Front Cover; Contents; Preface; The Authors; Chapter 1: Introduction; Chapter 2: Substrate Materials Used in BioMEMS Devices; Chapter 3: Biomolecules and Complex Biological Entities: Structure and Properties; Chapter 4: Engineering of Bioactive Surfaces; Chapter 5: Methods of Study and Characterization of Surface-Modified Substrates; Chapter 6: Biosensing Fundamentals; Chapter 7: Fabrication of BioMEMS Devices; Chapter 8: Introduction to Microfluidics; Chapter 9: BioMEMS: Life Science Applications; Back Cover
Sommario/riassunto	As technological advancements widen the scope of applications for biomicroelectromechanical systems (BioMEMS or biomicrosystems), the field continues to have an impact on many aspects of life science operations and functionalities. Because BioMEMS research and development require the input of experts who use different technical languages and come from varying disciplines and backgrounds, scientists and students can avoid potential difficulties in communication and understanding only if they possess a skill set and understanding that enables them to work at the interface of engineering and biosciences.