

1. Record Nr.	UNINA9910455446603321
Titolo	VLSI circuits for biomedical applications // Krzysztof Iniewski, [editor]
Pubbl/distr/stampa	Boston : , : Artech House, , ©2008 [Piscataway, New Jersey] : , : IEEE Xplore, , [2008]
ISBN	1-59693-318-6
Descrizione fisica	1 online resource (452 p.)
Altri autori (Persone)	IniewskiKrzysztof <1960->
Disciplina	621.395 22 610.28
Soggetti	Integrated circuits - Very large scale integration Biomedical engineering 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 and index.
Nota di contenuto	Preface; CHAPTER 1 Wireless Integrated Neurochemical and Neuropotential Sensing; CHAPTER 2 Visual Cortical Neuroprosthesis: A System Approach; CHAPTER 3 CMOS Circuits for Biomedical Implantable Devices; CHAPTER 4 Toward Self-Powered Sensors and Circuits for Biomechanical Implants; CHAPTER 5 CMOS Circuits for Wireless Medical Applications; CHAPTER 6 Error-Correcting Codes for In Vivo RF Wireless Links; CHAPTER 7 Microneedles: A Solid-State Interface with the Human Body; CHAPTER 8 Integrated Circuits for Neural Interfacing: Neuroelectrical Recording.
Sommario/riassunto	Supported with over 280 illustrations and over 160 equations, the book offers cutting-edge guidance on designing integrated circuits for wireless biosensing, body implants, biosensing interfaces, and molecular biology. You discover innovative design techniques and novel materials to help you achieve higher levels circuit and system performance.