

1. Record Nr.	UNINA9910720571303321
Titolo	Electromagnetic fields in biological systems / / edited by James C. Lin
Pubbl/distr/stampa	Boca Raton : , : CRC Press, Taylor & Francis Group, , [2012]
Descrizione fisica	1 online resource (xvi, 430 pages)
Disciplina	612/.01442
Soggetti	Electromagnetism - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Coupling of electromagnetic fields into biological systems / James C. Lin -- Pulsed electric fields in biological cells and membranes / R. P. Joshi and K. H. Schoenbach -- Static, low-frequency, and pulsed magnetic fields in biological systems / Shoogo Ueno and Hideyuki Okano -- Interaction of extremely low-frequency electromagnetic fields with biological systems / Tsukasa Shigemitsu and Kenichi Yamazaki -- Mobile communication fields in biological systems / Konstantina S. Nikita and Asimina Kiourti -- Medical devices and systems exposure and dosimetry / N. Leitgeb -- Terahertz radiation: sources, applications, and biological effects / Gerald J. Wilmink and Jessica E. Grundt.
Sommario/riassunto	"Focusing on exposure, induced fields, and absorbed energy, this volume covers the interaction of electromagnetic fields and waves with biological systems, spanning static fields to terahertz waves. Presenting a broad range of topics, the book highlights relevant properties of biological materials and computational techniques and/or experimental methods. Topics discussed include medical devices and systems exposure and dosimetry and mobile communication fields in biological systems. Extensive references are included in each chapter to enhance additional study"--Provided by publisher.