

1. Record Nr.	UNINA9911006567803321
Titolo	Biological effects of modulated radiofrequency fields [[electronic resource]]
Pubbl/distr/stampa	Bethesda, Md., : National Council on Radiation Protection and Measurements, 2003
ISBN	978-0-929600-80-2 978-1-60119-476-3 0-929600-80-0
Descrizione fisica	1 online resource (58 p.)
Collana	NCRP commentary ; ; no. 18
Disciplina	616.9/897
Soggetti	Radio frequency - Health aspects Radio waves - Health aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Issued December 2003."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Cover ""; ""Preface""; ""Contents""; ""Executive Summary""; ""1. Introduction""; ""1.1 Present Exposure Standards and Guidelines for Radiofrequency Radiation""; ""1.1.1 Whole-Body Exposure""; ""1.1.2 Time Averaging""; ""1.1.3 Partial-Body Exposure""; ""1.2 Pulse-Modulated Fields""; ""1.2.1 American National Standards Institute/Institute of Electrical and Electronics Engineers""; ""1.2.2 International Commission on Non-Ionizing Radiation Protection Guidelines""; ""1.2.3 Modulation and Exposure Parameters Other Than Time-Averaged Power""; ""1.3 Data Base for Existing Standards""; ""1.4 Technical Background""; ""1.4.1 Modulation""; ""1.4.2 Effects of Modulation on a Signal""; ""1.5 Methods""; ""2. In Vitro Studies""; ""2.1 Effects at the Organ or Tissue Level""; ""2.2 Effects on Cell Physiology""; ""2.2.1 Electrical Activity of Excitable Cells""; ""2.2.2 Cell Enzyme Activity""; ""2.2.3 Cell Growth and Cell Cycle""; ""2.2.4 Cell Membrane Functions and Properties""; ""2.2.5 Cell Calcium Effects""; ""2.2.6 Cell Physiology and Biochemistry""; ""2.3 Genotoxicity and DNA Damage""; ""3. In Vivo Studies""; ""3.1 Behavioral Studies""; ""3.2 Nervous System Studies""; ""4. Human Studies""; ""5. Epidemiological Studies""; ""6. Biophysical Considerations""; ""6.1 Physical Interaction Mechanisms""; ""6.1.1

Thermal Mechanisms""; ""6.1.2 Rate of Temperature Rise""; ""6.1.3
Other Proposed Mechanisms""; ""7. Discussion and Conclusions"";
""Acronyms""; ""References""; ""The NCRP""; ""NCRP Commentaries""
