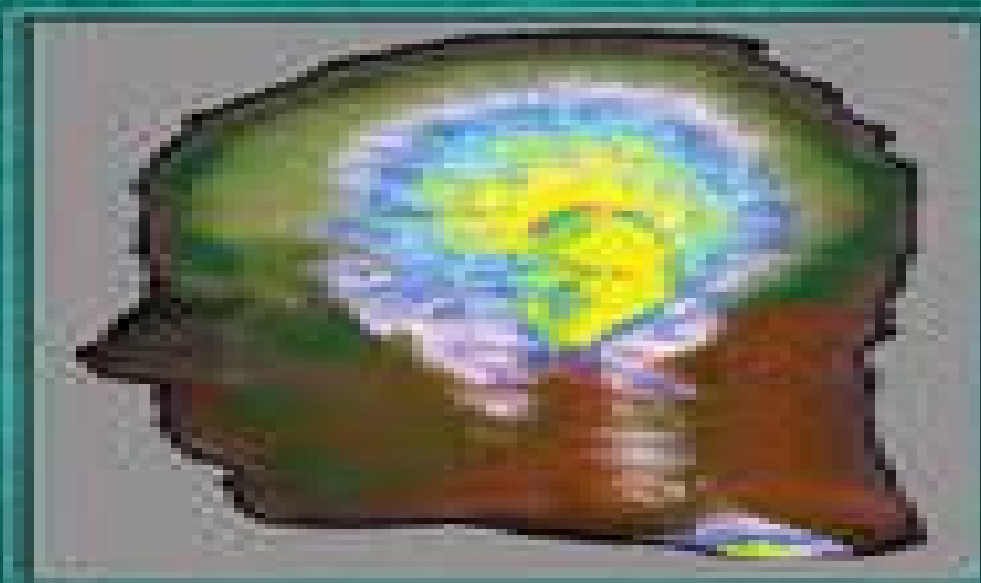


THIRD EDITION

# BASIC INTRODUCTION TO BIOELECTROMAGNETICS



JAMES H. NADEL + GYNTHIA M. FORSE  
DOUGLAS A. CHRISTENSEN + GARET H. DORNEY



CRC Press  
Taylor & Francis Group

# Basic Introduction To Bioelectromagnetics

**Ben Greenebaum, Frank Barnes**



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*Electromagnetic Fields in Biological Systems* James C. Lin, 2016-04-19 Spanning static fields to terahertz waves this volume explores the range of consequences electromagnetic fields have on the human body Topics discussed include essential interactions and field coupling phenomena electric field interactions in cells focusing on ultrashort pulsed high intensity fields dosimetry or coupling of ELF fields into biological systems and the historical developments and recent trends in numerical dosimetry It also discusses mobile communication devices and the dosimetry of RF radiation into the human

body exposure and dosimetry associated with MRI and spectroscopy and available data on the interaction of terahertz radiation with biological tissues cells organelles and molecules *Electromagnetics in Biology* Makoto Kato,2007-01-15 This book will serve as an ideal guide to the relatively new and complex field of bioelectromagnetics for students and researchers interested in the interaction of biological systems and electromagnetic fields Coverage details 1 biological responses of human and animals both in vivo and in vitro methodologies to magnetic and or electromagnetic field exposure 2 characteristics of effective fields 3 hypotheses to explain possible mechanisms of interaction between the fields and cells and 4 induced current in ELF and induced heat in RF fields as key interaction mechanisms **Bioengineering and**

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