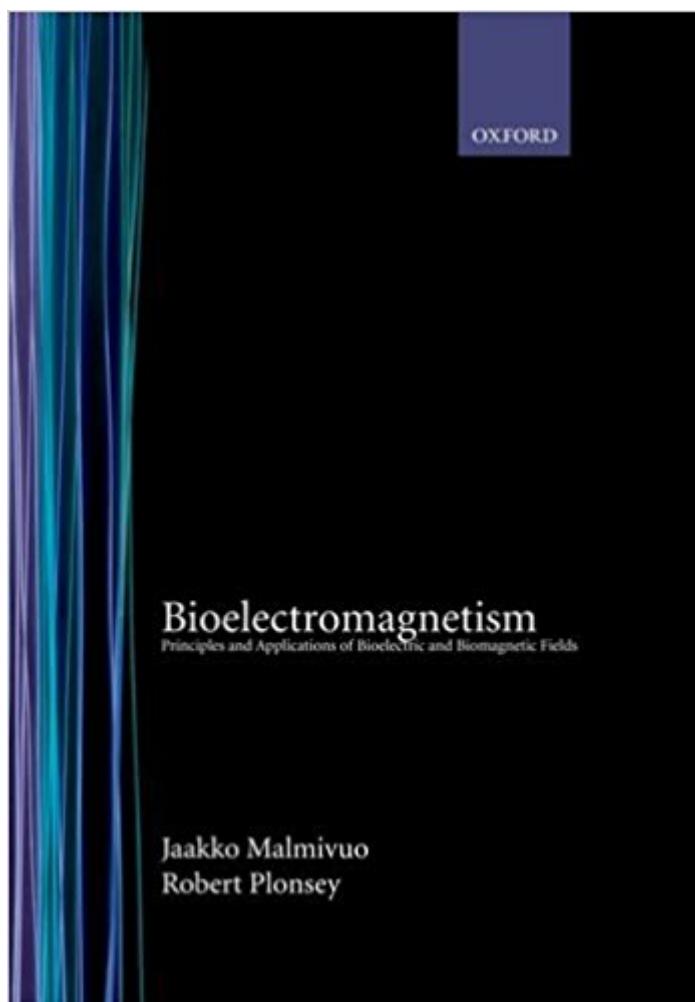


The book was found

Bioelectromagnetism: Principles And Applications Of Bioelectric And Biomagnetic Fields



Synopsis

This book provides a general view of bioelectromagnetism and describes it as an independent discipline. It begins with an historical account of the many innovations and innovators on whose work the field rests. This is accompanied by a discussion of both the theories and experiments which were contributed to the development of the field. The physiological origin of bioelectric and biomagnetic signal is discussed in detail. The sensitivity in a given measurement situation, the energy distribution in stimulation with the same electrodes, and the measurement of impedance are related and described by the electrode lead field. It is shown that, based on the reciprocity theorem, these are identical and further, that these procedures apply equally well for biomagnetic considerations. The difference between corresponding bioelectric and biomagnetic methods is discussed. The book shows, that all subfields of bioelectromagnetism obey the same basic laws and they are closely tied together through the principle of reciprocity. Thus the book helps the reader to understand the properties of existing bioelectric and biomagnetic measurements and stimulation methods and to design new systems. The book includes about 300 carefully drawn illustrations and 500 references. It can be used as a textbook for third or fourth year university students and as a source of reference.

Book Information

Hardcover: 512 pages

Publisher: Oxford University Press; 1 edition (July 27, 1995)

Language: English

ISBN-10: 0195058232

ISBN-13: 978-0195058239

Product Dimensions: 10.3 x 1.1 x 7.4 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #420,569 in Books (See Top 100 in Books) #69 in Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology #311 in Books > Engineering & Transportation > Engineering > Bioengineering > Biotechnology #340 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Neuroscience

Customer Reviews

"The book...is comprehensive and well-organized, and nicely edited and produced."--Engineering in Medicine and Biology

Robert Plonsey is at Duke University.

This splendid text is freely available on www.bem.filt lacks a discussion of the proton motive force and the chemiosmotic theory of Mitchell.

[Download to continue reading...](#)

Bioelectromagnetism: Principles and Applications of Bioelectric and Biomagnetic Fields Concepts and Techniques in Bioelectric Measurements: Is the Medium Carrying the Message? (English and French Edition) Crystals: The Ultimate Guide To: Energy Fields, Auras, Chakras and Emotional Healing (Aura, Healing Stones, Crystal Energy, Crystal Healing, Energy Fields, Emotional Healing, Gemstone) Mrs. Fields Cookie Book: 100 Recipes from the Kitchen of Mrs. Fields Fields Virology (Knipe, Fields Virology)-2 Volume Set Niedermeyer's Electroencephalography: Basic Principles, Clinical Applications, and Related Fields Modern Geometry – Methods and Applications: Part I: The Geometry of Surfaces, Transformation Groups, and Fields (Graduate Texts in Mathematics) (Pt. 1) Global Dynamics, Phase Space Transport, Orbits Homoclinic to Resonances, and Applications (Fields Institute Monographs) Structured Light Fields: Applications in Optical Trapping, Manipulation, and Organisation (Springer Theses) Interactions Between Electromagnetic Fields and Cells (Applications of Communications Theory) The Quantum Theory of Fields, Vol. 2: Modern Applications Nutritional Foundations and Clinical Applications: A Nursing Approach, 5e (Foundations and Clinical Applications of Nutrition) Transportation Systems Analysis: Models and Applications (Springer Optimization and Its Applications) 3D Reconstruction: Methods, Applications and Challenges (Computer Science, Technology and Applications) Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Encapsulation Technologies for Electronic Applications (Materials and Processes for Electronic Applications) Price Theory and Applications (with Economic Applications, InfoTrac 2-Semester Printed Access Card) Price Theory and Applications (with Economic Applications) Structural Equation Modeling with Mplus: Basic Concepts, Applications, and Programming (Multivariate Applications Series) Laboratory Applications in Microbiology: A Case Study Approach: Laboratory Applications in Microbiology: A Case Study Approach

[Contact Us](#)

[DMCA](#)

Privacy

FAQ & Help