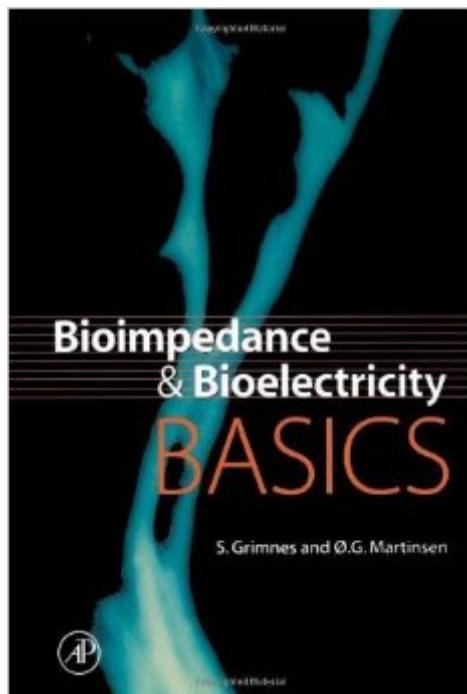


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Bioimpedance And Bioelectricity Basics (Biomedical Engineering)



Synopsis

Bioimpedance and Bioelectricity Basics is unique in providing all the information needed to follow the interdisciplinary subjects of bioimpedance and bioelectricity without having to be a graduate student in the relevant fields. For the first time, one book offers the broadest possible introduction to all use and effects of electrical fields in tissue, dealing with the most basic chemical and physical functions of life. Very few books have covered the dielectric and electrochemical side of the subject, despite its importance; Bioimpedance and Bioelectricity Basics does. It also includes the electrical engineering concepts of network theory and the complex math needed. Up to now, there has been work done by physicists and engineers on one side, doctors and biologists on the other, this book fills the gap, providing the knowledge for both groups. Key Features* is one complete source and reference guide to a complex and disparate field* gives the reader the latest research and applications* is highly illustrated, with an in-depth explanation of all mathematics

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Customer Reviews

Instead of delving into research papers on this subject, the authors offer this book. It is a specialised and useful summary of what is known about bioelectricity. The circuits are simple, at least to an

electric engineer. But then, she would be unlikely to know the biological aspects covered here. The level of physics is also straightforward. Simple dielectric models and usages of Maxwell's Equations. Nothing to scare off the physics student. Significant portions of the book are addressed to the experimenter. Giving help about instrumentation and designs. Plus descriptions of the types of data you are likely to get, and how to analyse these. Well suited for an experimentalist in either biology or physics.

Although the book is intended for persons in the biological sciences it is very unlikely to be of much help to those in medical and clinical practice hoping to understand better the applications and interpretation of bioimpedance.

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