



Bioelectrochemical phenomena: electrolysis and electroporation

By Alexander Golberg

SPS Mrz 2013, 2013. Taschenbuch. Condition: Neu. Neuware - Over the last decades, applications of irreversible electroporation (IRE) have emerged in biotechnology, food industry, and medicine. IRE uses a series of microsecond electric pulses that permanently open cell membranes and lead to cell death. The goal of this book is to address certain aspects of two major IRE applications: disinfection and tissue ablation in the treatment of diseases such as cancer. In relation to disinfection, I discuss IRE for sterilization of drugs, and using IRE for storage of perishable products. In relation to tissue ablation, I present a statistical model IRE treatment planning, and a new method for real-time control of IRE procedure. During the research on the real-time control of IRE in tissues, we realized that it has value beyond the original intended application - it may be used for generation of low cost electric energy. Theoretical analyses and emerging application discussed in this book should be especially useful to professionals in the Biomedical and Food Engineering fields, or anyone who is interested in the field of bioelectricity. 228 pp. Englisch.



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Reviews

An exceptional pdf and the typeface utilized was fascinating to read through. It can be written in straightforward words and phrases instead of confusing. I am just quickly could possibly get a delight of looking at a written ebook.

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It is a single of the best book. This is for those who state there had not been a well worth reading through. Once you begin to read the book, it is extremely difficult to leave it before concluding.

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