Medical Instrumentation Application And Design, 4th Edition

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Synopsis
This book provides biomedical engineers with the premiere reference on medical instrumentation as well as a comprehensive overview of the basic concepts. The revised edition features new material on infant apnea monitors, impedance pneumography, the design of cardiac pacemakers, and disposable defibrillator electrodes and their standards. Each chapter includes new problems and updated reference material that cover the latest medical technologies. The chapters have also been revised with new material in medical imaging, providing biomedical engineers with the most current techniques in the field. --This text refers to the Hardcover edition.

Book Information
File Size: 19195 KB
Print Length: 720 pages
Simultaneous Device Usage: Up to 3 simultaneous devices, per publisher limits
Publisher: Wiley; 4 edition (December 1, 2011)
Publication Date: December 1, 2011
Sold by: Digital Services LLC
Language: English
ASIN: B006R6I8R8
Text-to-Speech: Not enabled
X-Ray for Textbooks: Enabled
Word Wise: Not Enabled
Lending: Not Enabled
Enhanced Typesetting: Not Enabled
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Customer Reviews
If you start from scratch and you want to learn designing medical instrumentation, this book will leave you wanting for much more, especially if you wish to design the electronics too. On the whole, this book can be considered a collection of monographies of dishomogeneous complexity and detail level. For instance, the section on electronics (a measly thirty pages or so) is desperately basic and useless to conjure up any serious application. If you can design a half-decent biopotential amplifier,
you don't need to read it, and if you are a medical practitioner wanting to understand more about the
innards of your equipement you will find it too technical, because it looks like a copy/paste from an
electronics student manual. So why bother inserting it in the first place? The remaining sections
actually do better, are more or less informative and will give you a fairly good overview of the toys of
the trade. The section on biopotential and electrodes I found useful and interesting, but on the whole
this book is very far from being a standalone solution, or even a reference text. Some parts will
never be of interest for you, whatever your field is, and other ones require a lot of further reading.
I don't quite understand whom was it written for: it is too technical for the layman, too uneven and
scattered for the student and too generic for the specialist. And the price doesn't help.

Most of the book is filled with descriptions of instruments. Sometimes name and purpose is all that
is given, but most often it is purpose and general theory. Some sections have good, in-depth,
descriptions of the math and physics, but it is usually lacking. A handful of sections (luckily not
many) were painfully outdated. I would recommend this book as a reference, or maybe to someone
in sales who wants at least a basic understanding of how all the products work.

It talks about a lot of things, but issues are about one paragraph; thus, it's not very good for
understanding the equipment in depth. You should get to know general instrumentation and
engineering beforehand. This might be something that prompts interest, but it doesn't quite help you
develop anything, and you will definitely need a refresher of undergraduate engineering.

This book is a graduate level book that is very in dept. The subject is broad so they only spend a
little in each section. So much so that my prof. has his own "casebook" to help us learn practical
biomedical instrumentaion techniques.

This book is more of a reference book, not a textbook! Although it contains some vital information it
is a very poor textbook, although the cover is nice and attractive. Don't be fooled!

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