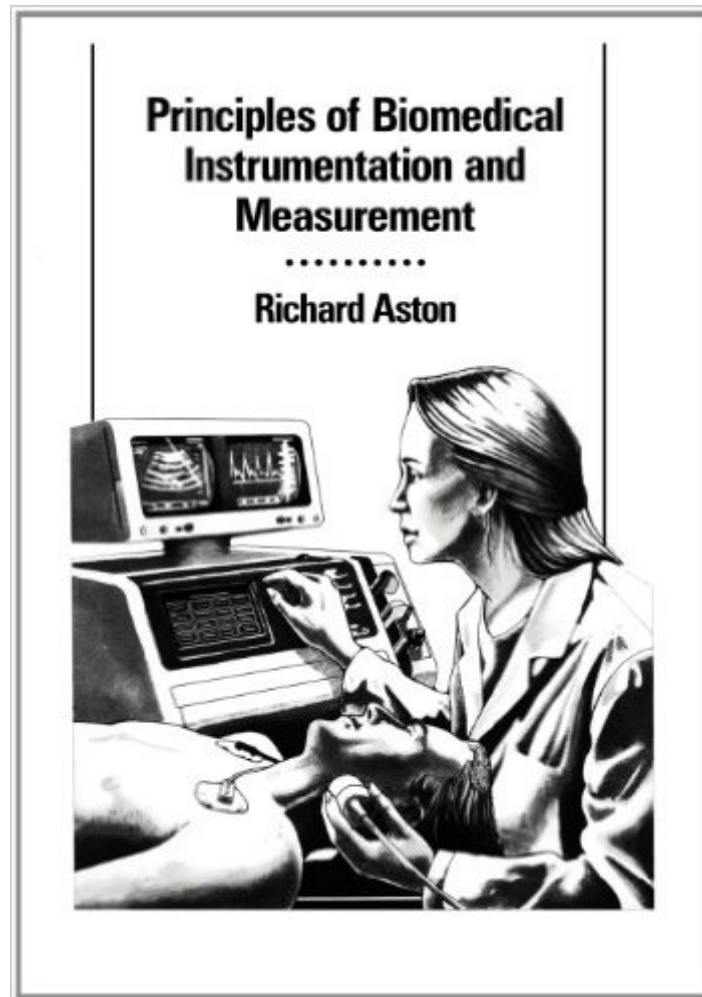


The book was found

Principles Of Biomedical Instrumentation And Measurement



Synopsis

A contemporary new text for preparing students to work with the complex patient-care equipment found in today's modern hospitals and clinics. It begins by presenting fundamental prerequisite concepts of electronic circuit theory, medical equipment history and physiological transducers, as well as a systematic approach to troubleshooting. The text then goes on to offer individual chapters on common and speciality medical equipment, both diagnostic and therapeutic. Self-contained, these chapters can be used in any order, to fit the instructor's class goals and syllabus. Principles are developed according to a unified theory that clearly illustrates the relationship between electronic, pneumatic and fluid equipment. Computer applications are integrated throughout the coverage. An appendix provides programmes for in-text calculations, half in BASIC and half in calculator sequence. "Theme" boxes in every chapter offer insights into current topics. A wealth of example problems - 25 in chapters 4 and 5 alone - provide practice in analyzing equipment problems in a variety of areas. A prior course in circuit theory is assumed.

Book Information

Paperback: 558 pages

Publisher: Prentice Hall; 1 edition (March 30, 1990)

Language: English

ISBN-10: 0675209439

ISBN-13: 978-0675209434

Product Dimensions: 7.2 x 1.3 x 9.1 inches

Shipping Weight: 2.1 pounds

Average Customer Review: 3.0 out of 5 starsÂ Â See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #1,334,542 in Books (See Top 100 in Books) #74 inÂ Books > Medical Books > Medicine > Reference > Instruments & Supplies #429 inÂ Books > Engineering & Transportation > Engineering > Bioengineering > Biomedical Engineering #2372 inÂ Books > Textbooks > Medicine & Health Sciences > Medicine > General

Customer Reviews

Biomedical Engineering Technology aims to educate future professionals that will work with medical equipment ensuring their correct calibration and safety. This book is an excellent introduction to this profession at the same time that provides a good overview of the basic measurement principles and techniques. The book covers important issues such as safety, transducers and the analysis of the main pieces of medical equipment. However, the book does not go in-depth into the details of the

medical instrumentation. Some of the topics analyzed in the book, such as oscillators, power amplifiers, etc., can be found in any general electronics book and their space could be better used by more detailed explanations focused on medical equipment. Nevertheless, Aston's book is a good introduction to the field.

This book is a required textbook for one of my classes. Class offers minimal teacher interaction. Material is poorly presented. In the interest of saving pages, it seems like the writer was cramming in too much information, thus the material comes across as vague and unnecessarily complicated. The illustrations aren't as helpful as they could be. This book might be fine as a reference for someone needing a refresher course, but for a student new to the field, it leaves much to be desired.

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

Principles of Biomedical Instrumentation and Measurement
Biomedical Ethics for Engineers: Ethics and Decision Making in Biomedical and Biosystem Engineering (Biomedical Engineering Series)
Principles of Applied Biomedical Instrumentation
Surgical Instrumentation Flashcards Set 3: Microsurgery, Plastic Surgery, Urology and Endoscopy Instrumentation (Study on the Go!)
Instrumentation for the Operating Room: A Photographic Manual, 6e (Instrumentation for the Operating Room (Brooks-T))
Instrumentation for Process Measurement and Control, Third Edition
Biomedical Instrumentation: Technology and Applications
Biomedical Instrumentation And Measurements (2nd Edition)
Introduction to Biomedical Instrumentation: The Technology of Patient Care
Medical Aspects of Proteases and Proteases Inhibitors (Biomedical and Health Research, Vol. 15) (Biomedical and Health Research, V. 15)
Dopamine Receptor Sub-Types: From Basic Sciences to Clinical Applications (Biomedical and Health Research, Vol. 19) (Biomedical and Health Research, V. 19)
Quantitative Biomedical Optics: Theory, Methods, and Applications (Cambridge Texts in Biomedical Engineering)
Biomedical Engineering and Design Handbook, Volume 1: Volume I: Biomedical Engineering Fundamentals
Instrumentacion quirurgica / Surgical instrumentation: Principios Y Práctica / Principles and Practice (Spanish Edition)
The Complete Works of Herbert Spencer: The Principles of Psychology, The Principles of Philosophy, First Principles and More (6 Books With Active Table of Contents)
Planets, Stars and Stellar Systems: Volume 1: Telescopes and Instrumentation
Real World Instrumentation with Python: Automated Data Acquisition and Control Systems
Rad Tech's Guide to MRI: Basic Physics, Instrumentation, and Quality Control
Industrial Automated Systems: Instrumentation and Motion Control
Instrumentation And Control Systems Documentation, Second Edition

