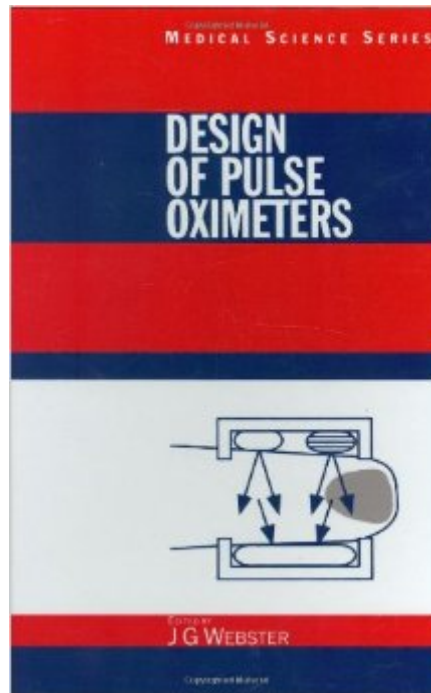


The book was found

Design Of Pulse Oximeters (Series In Medical Physics And Biomedical Engineering)



Synopsis

Design of Pulse Oximeters describes the hardware and software needed to make a pulse oximeter, and includes the equations, methods, and software required for them to function effectively. The book begins with a brief description of how oxygen is delivered to the tissue, historical methods for measuring oxygenation, and the invention of the pulse oximeter in the early 1980s. Subsequent chapters explain oxygen saturation display and how to use an LED, provide a survey of light sensors, and review probes and cables. The book closes with an assessment of techniques that may be used to analyze pulse oximeter performance and a brief overview of pulse oximetry applications. The book contains useful worked examples, several worked equations, flow charts, and examples of algorithms used to calculate oxygen saturation. It also includes a glossary of terms, instructional objectives by chapter, and references to further reading.

Book Information

Series: Series in Medical Physics and Biomedical Engineering

Hardcover: 260 pages

Publisher: CRC Press; 1 edition (October 23, 1997)

Language: English

ISBN-10: 0750304677

ISBN-13: 978-0750304672

Product Dimensions: 6.1 x 0.7 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 starsÂ Â See all reviewsÂ (3 customer reviews)

Best Sellers Rank: #1,370,443 in Books (See Top 100 in Books) #41 inÂ Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies #55 inÂ Books > Medical Books > Medicine > Prosthesis #76 inÂ Books > Medical Books > Medicine > Reference > Instruments & Supplies

Customer Reviews

It's a good book for students explaining the basic concepts. A modern pulse oximeter has complex signal processing algorithms implemented, which make it robust against motion artifacts. This is not covered in the book.

This book give idel how pulse oxymeter work. The thing that alway the black box for biomed. anyway after readind this book you can not design any oxymeter device.

it sounds to be a good reference for students studying and researching about pulse oximeter. may be good reference for pulse oximeter designers!(it depend to how the level of complete contents or text would be)

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

Design of Pulse Oximeters (Series in Medical Physics and Biomedical Engineering) Biomedical Ethics for Engineers: Ethics and Decision Making in Biomedical and Biosystem Engineering (Biomedical Engineering Series) Biomedical Engineering and Design Handbook, Volume 1: Volume I: Biomedical Engineering Fundamentals An Introduction to Rehabilitation Engineering (Series in Medical Physics and Biomedical Engineering) Medical Aspects of Proteases and Proteases Inhibitors (Biomedical and Health Research, Vol. 15) (Biomedical and Health Research, V. 15) Quantitative Biomedical Optics: Theory, Methods, and Applications (Cambridge Texts in Biomedical Engineering) Laser-Tissue Interactions: Fundamentals and Applications (Biological and Medical Physics, Biomedical Engineering) Laser Technology in Biomimetics: Basics and Applications (Biological and Medical Physics, Biomedical Engineering) Photonics of Biopolymers (Biological and Medical Physics, Biomedical Engineering) Dopamine Receptor Sub-Types: From Basic Sciences to Clinical Applications (Biomedical and Health Research, Vol. 19) (Biomedical and Health Research, V. 19) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Medical Terminology: Medical Terminology Made Easy: Breakdown the Language of Medicine and Quickly Build Your Medical Vocabulary (Medical Terminology, Nursing School, Medical Books) Engaging the Bachelor (The Pulse Series) American Medical Association Complete Medical Encyclopedia (American Medical Association (Ama) Complete Medical Encyclopedia) Evolution and Vertebrate Immunity: The Antigen-Receptor and Mhc Gene Families (University of Texas Medical Branch Series in Biomedical Science) G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Ultra-Wideband Short-Pulse Electromagnetics 4 (v. 4) Ultra-Wideband, Short-Pulse Electromagnetics Handbook of Contemporary Chinese Pulse Diagnosis Chinese Pulse Diagnosis: A Contemporary Approach

[Dmca](#)