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

**Synopsis**

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

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