Design of Medical Electronic Devices

Reinaldo Perez
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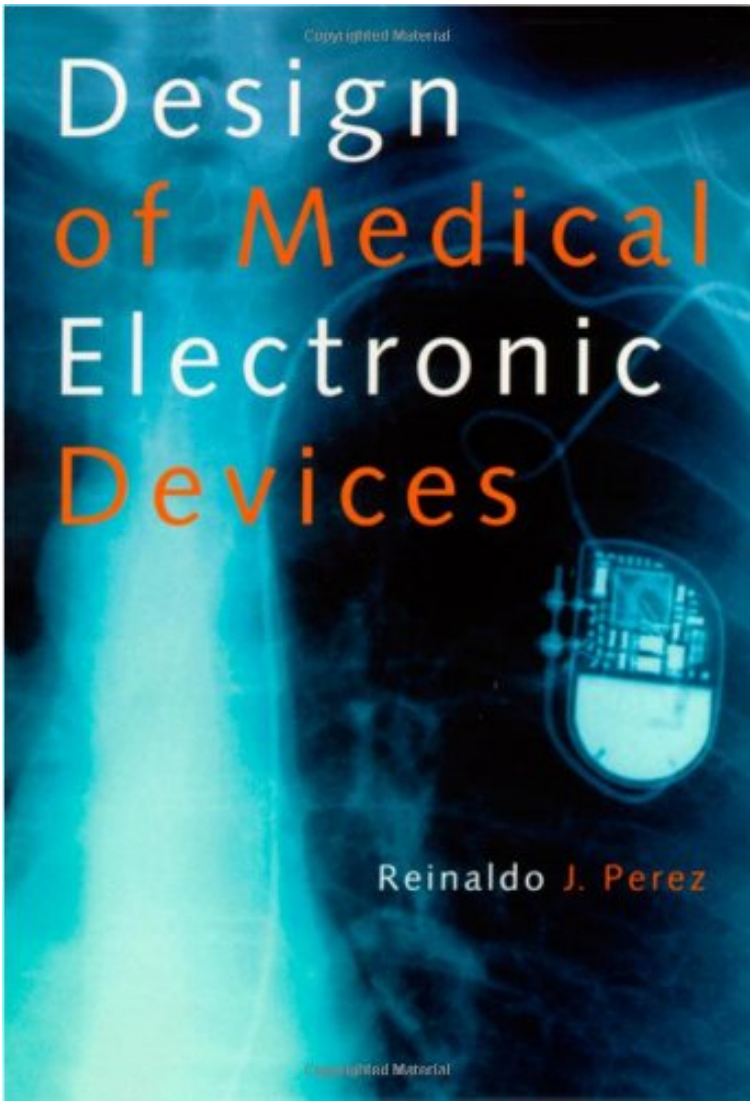

#3606106 in Books Reinaldo Perez 2002-03-14Original language:EnglishPDF # 1 10.00 x .69 x 7.01l, 1.55 #File Name: 0125507119296 pagesDesign Of Medical Electronic Devices | File size: 55.Mb

Reinaldo Perez : Design of Medical Electronic Devices before purchasing it in order to gage whether or not it would be worth my time, and all praised Design of Medical Electronic Devices:

3 of 3 people found the following review helpful. Title of book is nearly a fraudBy Judy ReinholdI would have expected a book titled "Design of Medical Electronic Devices" to as a minimum address the variations from standard design practices that are needed in medical electronics. In addition, it should have some background material covering the product approval process through the FDA (or even a non-US agency). But, most of all, it should cover electronic DEVICES! It contains some useful background information for Medical IMAGING SYSTEMS but only at the circuit

level is it relevant to electronic devices.As another person had cited, the illustrations are very substandard.To quote the old hamburger commercial "Where's the beef?"0 of 0 people found the following review helpful. arrive on time.By Reubenvery fast, receive it next day. This product is so great. I love it. It cuts like no other product I have even had. If you want A great product you need this one. as a birthday gift to my husband great, and very happy. as the price.12 of 12 people found the following review helpful. Absolutely disappointingBy Engineering ProfessorIn the modern age of publishing, there can be no excuses for sub-standard figures. Why is it then, that this book has technical illustrations that are both crude and clumsy? I was unable to find a single figure without at least one error.The content was also extremely disappointing, being of a primarily superficial level. Ok for introduction to the topics, but no more. I was also a little disturbed with some of the referencing methods used by the author, where it appeared in one instance, that they essentially repeated portions of a referenced publication.I strongly suggest spending your money elsewhere unless you are simply interested in learning about the basics.

The design of medical electronics is unique because of the background needed by the engineers and scientists involved. Often the designer is a medical or life science professional without any training in electronics or design. Likewise, few engineers are specifically trained in biomedical engineering and have little or no exposure to the specific medical requirements of these devices. Design of Medical Electronic Devices presents all essential topics necessary for basic and advanced design. All aspects of the electronics of medical devices are also covered. This is an essential book for graduate students as well as professionals involved in the design of medical equipment.Covers every stage of the process, from design to manufacturing to implementation Topics covered include analogue/digital conversions, data acquisition, signal processing, optics, and reliability and failure

"Using an engineering approach, the fundamentals of electronic medical devices are presented along with the basic medical knowledge deemed necessary for design considerations. After addressing power subsystems, chapters address a range of sensors. The processes of data acquisition and digital signal processing are also considered. The material is accompanied by examples of technologies and numerous schematic diagrams." --Book News, Inc., Portland, OR From the Back CoverDesign of Medical Electronic Devices presents all essential topics necessary for basic and advanced design. All aspects of the electronics of medical devices are also covered. This is an essential book for graduate students as well as professionals involved in the design of medical equipment. This book bridges the gap between the medical professional and the engineer in designing medical devices. Covering every stage of the process, from design to manufacturing to implementation, the book will prove invaluable to engineers and medical professionals involved in the creation of these devices. Topics covered include analog/digital conversions, data acquisition, signal processing, optics, and reliability and failure.The design of medical electronics is unique because of the background needed by the engineers and scientists involved. Often the designer is a medical or life science professional without any training in electronics or design. Likewise, few engineers are specifically trained in biomedical engineering and have little or no exposure to the specific medical requirements of these devices. Design of Medical Electronic Devices presents all essential topics necessary for basic and advanced design. All aspects of the electronics of medical devices are also covered. This is an essential book for graduate students as well as professionals involved in the design of medical equipment.About the AuthorReinaldo Perez is Senior Engineer and Member of the Technical Staff at the Jet Propulsion Laboratory, California Institute of Technology in Pasadena, California. For the past three years, Dr. Perez has also been working with Lockheed Martin Astronautics (LMA) on the Mars Surveyor series. His primary work has been as a designer of spacecraft (or satellite) subsystems and ground support hardware for increased reliability in space environments, focusing on wireless communications hardware with built-in immunity to many kinds of noise and interference problems. He is a senior member of the IEEE, AIAA, and AIP, and serves as a board member of the Applied Computational Electromagnetics Society (ACES). In addition, Dr. Perez is an associate editor of the IEEE EMCS Journal, as well as Editor of the ACES Newsletter.