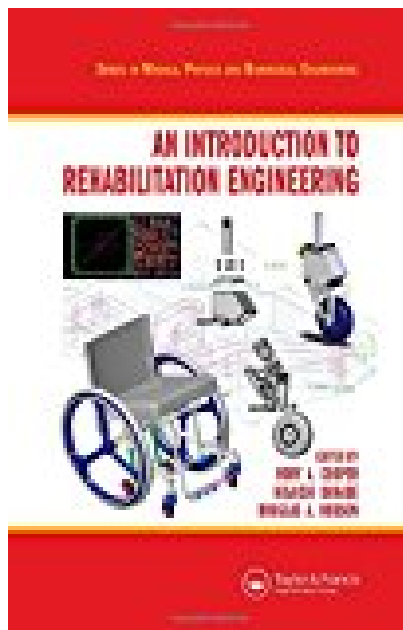


# An Introduction to Rehabilitation Engineering Series in Medical Physics and Biomedical Engineering

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## BOOK DETAILS

- Author :
- Pages : 470 Pages
- Publisher : CRC Press
- Language : English
- ISBN : 0849372224

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## **BOOK SYNOPSIS**

Answering the widespread demand for an introductory book on rehabilitation engineering (RE), Dr. Rory A. Cooper, a distinguished RE authority, and his esteemed colleagues present *An Introduction to Rehabilitation Engineering*. This resource introduces the fundamentals and applications of RE and assistive technologies (ATs). After providing a brief introduction, the book describes the models for AT service delivery, the design tools and principles of universal design, and various technology-transfer mechanisms, models, and principles. The text then explains the process for creating assistive device standards, followed by a review of seating biomechanics and soft tissue biomechanics. Subsequent chapters examine design and service delivery principles of wheelchairs and scooters, functional electrical stimulation and its applications, wheelchair-accessible transportation legislation, and the applications of robotics in medical rehabilitation. The book proceeds to discuss prosthetic and orthotic design and usage, visual and hearing impairment, Web-related AT, and augmentative and alternative communication (AAC) technology. It concludes with an introduction to adaptive sports and recreation. Incorporating the critical aspects of RE and AT, *An Introduction to Rehabilitation Engineering* focuses on the principles, modeling, standards, devices, and technologies of RE and AT. It presents a concise yet complete overview of RE to provide a solid foundation in the subject as well as to stimulate further study.

**AN INTRODUCTION TO REHABILITATION ENGINEERING SERIES IN MEDICAL PHYSICS AND BIOMEDICAL ENGINEERING** - Are you looking for Ebook *An Introduction To Rehabilitation Engineering Series In Medical Physics And Biomedical Engineering* ? You will be glad to know that right now *An Introduction To Rehabilitation Engineering Series In Medical Physics And Biomedical Engineering* is available on our online library. With our online resources, you can find *Applied Numerical Methods With Matlab Solution Manual 3rd Edition* or just about any type of ebooks, for any type of product. Best of all, they are entirely free to find, use and download, so there is no cost or stress at all. *An Introduction To Rehabilitation Engineering Series In Medical Physics And Biomedical Engineering* may not make exciting reading, but *Applied Numerical Methods With Matlab Solution Manual 3rd Edition* is packed with valuable instructions, information and warnings. We also have many ebooks and user guide is also related with *An Introduction To Rehabilitation Engineering Series In Medical Physics And Biomedical Engineering* and many other ebooks. We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with *An Introduction To Rehabilitation Engineering Series In Medical Physics And Biomedical Engineering* . To get started finding *An Introduction To Rehabilitation Engineering Series In Medical Physics And Biomedical Engineering* , you are right to find our website which has a comprehensive collection of manuals listed.