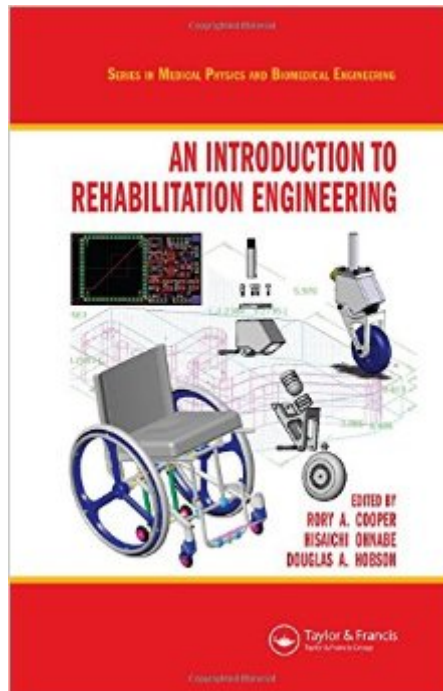


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# An Introduction To Rehabilitation Engineering (Series In Medical Physics And Biomedical Engineering)



## 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.

## Book Information

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## Customer Reviews

I highly recommend this book as a great source of information regarding rehabilitation engineering. As a personal injury lawyer, I am handling a case for a 86 year old quadriplegic woman who, due to a malfunction in her wheelchair restraint system, slid out of her wheelchair while being transported in a van and sustain multiple fractures of both legs. Frankly, I had no great ideas on how to start researching the industry standards in this field. So, I bought this book and remarkably I learned everything I needed to know by reading its chapter on WHEELCHAIR TRANSPORTATION SAFETY. I even contacted one of the authors of that chapter and learned even more valuable information. This book was easy to understand (even for the layman) and contained everything I needed to know in this area.

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