



Paediatric Rehabilitation Engineering: From Disability to Possibility (Rehabilitation Science in Practice Series)

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Innovations in paediatric rehabilitation engineering can serve as a springboard to education, psychosocial, social, physical and cognitive development for children and youth with disabilities. Instead of providing an overview of rehabilitation engineering, **Paediatric Rehabilitation Engineering** focuses on the uniqueness of the paediatric subspecialty via an international sampling of methods and techniques currently in use or in development.

The book is divided into three complementary components. The first group of chapters is broadly concerned with connecting individuals to their environment and to the people around them. The second group revolves around paediatric technologies that compensate for compromised or missing function. The final group of chapters is about machines and environments which provide stimulating and interactive platforms for therapy and research.

Topics include:

- Microswitch-based occupational, recreational and rehabilitation programs
- Emerging access technologies, like infrared thermal imaging and vocal cord vibration detection
- Communication technologies to enable children to communicate in a variety of everyday environments
- Accessible graphical user and Web-based interface design
- Postural and upper and lower extremity compensation, such as customized chairs and prostheses
- Global efforts in the area of robotics for autism research
- Virtual reality and other interfaces to mitigate motor, communication, and physical control difficulties

Paediatric rehabilitation engineering offers endless possibilities for future research with implications across the fields of physical and cognitive rehabilitation, medicine, computer science, and policy. It is the harmonizing of the expertise and energies of rehabilitation professionals such as teachers, families, paediatric rehabilitation engineers, and other stakeholders that will ensure that children are optimally supported as they embark on their journey from disability to possibility.

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