Biomechatronics in Medical Rehabilitation: Biomodelling, Interface, and Control

Shane Xie, Wei Meng

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Biomechatronics in Medical Rehabilitation: Biomodelling, Interface, and Control Shane Xie, Wei Meng This book focuses on the key technologies in developing biomechatronic systems for medical rehabilitation purposes. It includes a detailed analysis of biosignal processing, biomechanics modelling, neural and muscular interfaces, artificial actuators, robot-assisted training, clinical setup/implementation and rehabilitation robot control.

Encompassing highly multidisciplinary themes in the engineering and medical fields, it presents researchers' insights into the emerging technologies and developments that are being utilized in biomechatronics for medical purposes.

Presenting a detailed analysis of five key areas in rehabilitation robotics: (i) biosignal processing; (ii) biomechanics modelling; (iii) neural and muscular interfaces; (iv) artificial actuators and devices; and (v) the use of neurological and muscular interfaces in rehabilitation robots control, the book describes the design of biomechatronic systems, the methods and control systems used and the implementation and testing in order to show how they fulfil the needs of that specific area of rehabilitation. Providing a comprehensive overview of the background of biomechatronics and details of new advances in the field, it is especially useful for researchers, academics and graduates new to the field of biomechatronics engineering, and is also of interest to researchers and clinicians in the medical field who are not engineers.

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