



Introduction to Prosthetic Hand Engineering (Theory and Applications) (Paperback)

By Abbas Alzubaidi

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Simplification of prosthetic hand engineering is crucial for many interests and readers, with the increased numbers of handicapped individuals overall the world. An introduction to the basic engineering concepts of designing, prototyping, and assembling of a prosthetic hand can be available for everyone in demand to this technology, which becomes more affordable and cheaper by using of 3D printing and 3D CAD modeling techniques. We hope from writing this book to shape another solution for many people with disabilities in need for such technology. What This Book Provides This book gives an insight to the fundamentals, basic concept, and engineering principles of the prosthetic hand systems. It provides the most important topics needed to understand from scratch what the prosthetic hand system is and how to build such biomechanical unit in a professional manner. As intended illustrative approach, this book provides 140 descriptive figures and block diagrams. What This Book Covers This book covers the signal processing section for the EMG (Electromyography) signal and how to improve the functionalities of the prosthetic unit from the kinematic and the prehension point of view....

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