

Digital Methods in Developing Textile Products for People with Locomotor Disabilities

Bianca Aluculesei, Sybille Krzywinski, Antonela Curteza, Manuela Avadanei

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This book focuses upon the design of garments for wheelchair-users by considering the shape of the body while in the sitting position, the needs of the user (functionality, fashionability, ease-of-use, affordability, safety), as well as the characteristics and properties of the materials used.

Keyword: Disabilities, Clothing for Disabled Persons, Wheelchair Users, Paraplegia, Functional Clothes, Kinematic Model, Scanning Procedure, 2D-3D/ 3D-2D Virtual Prototype, Body Posture Simulation, Virtual Pattern Making, Garment Fit Simulation

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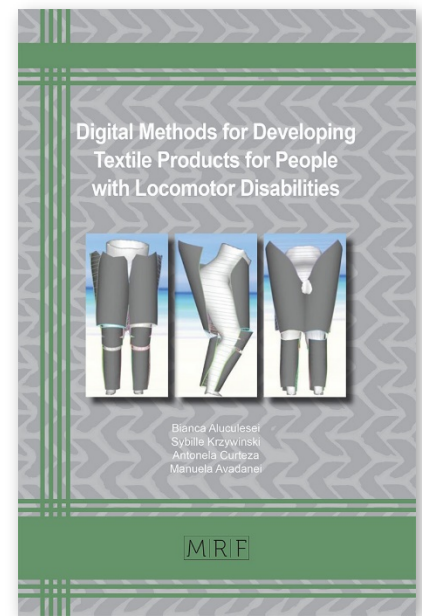
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Summary:

In the United States, there are 3-4 million wheelchair users, with the number steadily increasing. This book focuses upon the design of garments for wheelchair-users by considering the shape of the body while in the sitting position, the needs of the user (functionality, fashionability, ease-of-use, affordability, safety), as well as the characteristics and properties of the materials used. The book references 186 original resources and includes their direct web link for in-depth reading.



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