Computational Biomechanics for Medicine: Deformation and Flow

Poul M.F. Nielsen · Adam Wittek
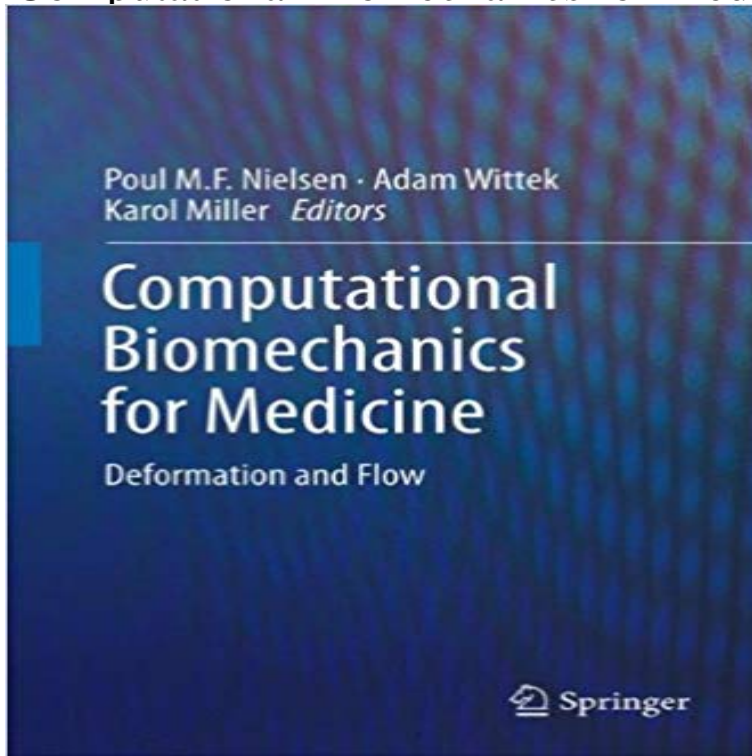Karol Miller *Editors*

Computational Biomechanics for Medicine

Deformation and Flow

Springer

One of the greatest challenges for mechanical engineers is to extend the success of computational mechanics to fields outside traditional engineering, in particular to biology, biomedical sciences, and medicine.This book is an opportunity for computational biomechanics specialists to present and exchange opinions on the opportunities of applying their techniques to computer-integrated medicine.Computational Biomechanics for Medicine: Deformation and Flow collects the papers from the Medical Image Computing and Computer Assisted Intervention conference (MICCAI 2011) dedicated to research in the field of medical image computing and computer assisted medical interventions. The topics covered include: medical image analysis, image-guided surgery, surgical simulation, surgical intervention planning, disease prognosis and diagnostics, injury mechanism analysis, implant and prostheses design, andmedical robotics.

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