



Computational Biomechanics (Paperback)

By -

Springer Verlag, Japan, Japan, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.It is widely recognized that numerical analysis is a useful tool common to the fields of engineering, applied mathematics and mechanics, and medical science. Computer simulation and modeling have contributed much to the understanding of a wide variety of biomedical phenomena. In particular the use of numerical techniques is essential for solving problems involving extremely complex geometry and physical properties that arise in a wide range of biomechanics. The increased speed and expanded storage capacity of modern computers, together with newly advanced numerical and programming techniques, have greatly improved the potential for studying complicated biomedical processes. Computer modeling techniques and their applications in the field of biomechanics have shown remarkable development in Japan in the past few years. This book focuses on these advances and shows how computer modeling and simulation are being utilized to aid and assist researchers, scientists, and clinicians in their understanding of biomedical systems from the biomechanical point of view. The papers included in this book fall within three main areas of interest: orthopedic, orthodontic, and skeletal mechanics; circulatory mechanics; and bio-...



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