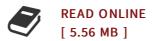




Finite Element Modeling of Biological Tissues

By Yang, Zhaochun

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller Simulation of Poroviscoelastic Materials in Dynamical Process During the last decade, finite element analysis has been applied in orthopedic biomechanics and spinebiomechanics research widely. A number of finite element methods have been developed to describemechanical behavior of soft tissues. Up to now, noexisting model includes large deformation, material viscoelasticity and inertial effects, which are important features of the mechanical behavior of thebiological tissue. This book develops a finite element method that includes poroviscoelasticmaterial behavior, finite deformations, inertia andmechano-electrochemical effects for the modeling ofbiological tissue. It covers derivative of governing equations, numerical implementation, validation, and finally application in biomechanics. This book shouldbe useful to researchers and engineers inbiomechanics for understanding mechanical behavior of soft tissues in dynamical process, or someone else who learns finite element method as wellas finite element programming. | Format: Paperback | Language/Sprache: english | 100 pp.



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