Analysis And Design Of Biological Materials And Structures

From the contents: Numerical stress analysis of C3-C5 cervical porcine vertebrae under compressive loading using 3-D scanner and 3-D Computed Tomography.- Stresses and Strains Analysis of a Longitudinal Heterogeneous Arterial Wall.- Stresses and Strains Analysis in the Left Ventricular wall with Finite Deformations.- Stress distribution at the interface Bone-implant in dental prosthesis with stress barrier.- Biomechanical behaviour analyse of sap ascent in vascular plants.- Experimental Investigation of the Surface Tension of Lipid Membranes.- Finite element analysis of traction force induced by cell on the liquid crystals.- Preparation of Forsterite-bioactive glass-hydroxyapatite Composite Nanopowder for Biomedical Applications.- Biomechanical Properties of the Aorta in Neonates and Infants.- Biomechanical properties of coronary arteries neonates.- Numerical Method on Blood Flow Pressure Drop in Aorta Coronary Sinus Conduit.- Biomechanical Modeling of Aneurysm Growth and Rupture using Fluid Structure Interaction.- Study and Mathematical Modeling of Transient Gas Compositions for Modified Atmosphere Packaging.- Kinetic modeling of biogas generation from banana stem waste.- Simulation of the problems of refraction in the human eye.- Human Gait: Kinematics Analysis and Mechatronic Simulation. EAN/ISBN : 9783642221316 Publisher(s): Springer, Berlin Discussed keywords: Biomaterialien Format: ePub/PDF Author(s): chnser, Andreas - Silva, Lucas Filipe Martins da - Altenbach, Holm

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