

**Contact Mechanics Of Articular Cartilage Layers:
Asymptotic Models (Advanced Structured Materials) By
Ivan Argatov;Gennady Mishuris**

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Considerations on joint and articular cartilage

Finally, we propose a series of theoretical models of articular cartilage and contact mechanics, Considerations on Joint and Articular Cartilage Mechanics

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Cartilage Mechanics Keywords: Articular Cartilage;

In vivo articular cartilage contact kinematics of

Abstract. Background: Quantifying the in vivo cartilage contact mechanics of the knee may improve our understanding of the mechanisms of joint

Microscale contact mechanics of articular

Osteoarthritis (OA) is presently one of the leading causes of chronic disability in the United States. It is characterized by the progression of damage of articular

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, Contact Mechanics of Articular Cartilage Argatov, Ivan/ Mishuris, Gennady, of Articular Cartilage Layers. Asymptotic Models.

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Altered knee joint mechanics in simple compression

cardiovascular and lung dynamics, neurobiology, computational cartilage degeneration on contact mechanics articular cartilage on knee joint mechanics

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Articular contact mechanics: asymptotic modelling

ASYMPTOTIC MODELLING IN ARTICULAR CONTACT MECHANICS Dr. Ivan Argatov Institute of Mathematics and Physics, Aberystwyth University Introduction Articular cartilage is

Toward patient-specific articular contact

Abstract. The mechanics of contacting cartilage layers is fundamentally important to understanding the development, homeostasis and pathology of diarthrodial joints.

Joint contact modelling of articular cartilage in

Articular Cartilage Contact Mechanics Modeling," Journal of Biomechanical Engineering, 132(3), pp. 8 (031001). This was a more exhaustive study based on the

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Spatial mapping of the biomechanical properties of

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A multibody knee model with discrete cartilage

Combining musculoskeletal simulations with anatomical joint models capable of predicting cartilage contact mechanics would provide a valuable tool for studying the

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Articular cartilage damage severity is related to

ARTICULAR CARTILAGE DAMAGE SEVERITY IS RELATED TO CONTACT MECHANICS
+*Anderst, W J; *Tashman, S *Motion Analysis Lab, Henry Ford Hospital, Detroit, MI

Contact mechanics modelling of articular

contact mechanics; articular cartilage; poroelastic; finite element; contact dependent fluid flow:
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Experimental validation of a new biphasic model of

biphasic finite element model of a porcine acetabulum incorporating a biphasic representation of the articular cartilage and the contact mechanics

Material and functional properties of articular

The purpose of this study was to determine the in situ functional and material properties of articular cartilage contact mechanics of two biphasic cartilage

The effects of focal articular defects on

K. R., Wong, B. L., Bae, W. C. and Sah, R. L. (2009), The effects of focal articular defects on cartilage contact mechanics of articular cartilage when worn

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Leping li - current research

Pathomechanics of Human Knee Joints joint mechanics to facilitate osteoarthritis research and clinical applications. Articular cartilage and meniscus are

The influence of size, clearance, cartilage

Keywords: Contact mechanics, Articular cartilage, Joint contact modelling of articular cartilage in synovial joints. Ph.D. Thesis. University of Leeds.

Biphasic investigation of contact mechanics in

The aim of this study was to determine the cartilage contact mechanics and the associated fluid Joint contact modelling of articular cartilage in

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The effects of focal articular defects on

The Effects of Focal Articular Defects on Cartilage Contact Mechanics. Kenneth R. Gratz, Effect of a focal articular defect on cartilage deformation during

An articular cartilage contact model based on real

We demonstrated that small misalignments of the patella relative to the femur change the joint contact mechanics Contact pressure; Articular cartilage

Biphasic finite element modelling of contact

Jul 31, 2008 Biphasic finite element modelling of the contact between the articular cartilage finite element modelling of contact mechanics of

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