

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

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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

### **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

### **Contact mechanics modelling of articular**

contact mechanics; articular cartilage; poroelastic; finite element; contact dependent fluid flow: Academic Units: The University of Leeds > Faculty of Engineering

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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

### **Finite element analysis predicts focal defect e**

Finite Element Analysis Predicts Focal Defect E ffects on Articular Cart ilage Contact Mechanics Cartilage Mechanics Keywords: Articular Cartilage;

### **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

### **Large deviations and asymptotic methods in finance**

Contact Mechanics of Articular Cartilage Contact Mechanics of Articular Cartilage Layers: Asymptotic Models (Advanced by Ivan Argatov and Gennady Mishuris

### **Spatial mapping of the biomechanical properties of**

Spatial Mapping of the Biomechanical Properties of the Pericellular Matrix of Articular contact was identified using of articular cartilage on chondrocyte

### **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

### **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**

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

### **Contact mechanics of articular cartilage layers:**

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### **Multiscale mechanics of articular cartilage:**

Multiscale Mechanics of Articular Cartilage: Potentials and Challenges of Coupling Musculoskeletal, and gross cartilage contact mechanics (body and joint)

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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

### **Effects of inserting a pressensor film into**

Effects of Inserting a Pressensor Film Into Articular Joints on the Actual Contact Mechanics. Contact mechanics; Cartilage; Accuracy and precision; Thickness;

### **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

### **Contact mechanics of articular cartilage layers**

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

### **The vault at the university of calgary: the roles**

Title: The Roles of the Normal Mechanical Properties of Articular Cartilage in the Contact Mechanics of the Human Knee Joint: a Finite Element Approach

### **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

### **Contact mechanics of articular cartilage layers -**

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

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### **Advanced mechanics of materials and applied**

"Advanced Mechanics of Materials and Contact Mechanics of Articular Cartilage Layers: Asymptotic Models by Ivan Argatov and Gennady Mishuris

### **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

### **Altered knee joint mechanics in simple compression**

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

### **Gerard a. ateshian | mechanical engineering**

Gerard A . Ateshian is contact theoretical analysis of contact mechanics of Ateshian, G.A., The role of interstitial fluid pressurization in articular

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Contact Mechanics of Articular Cartilage Layers: Asymptotic models Oct 5 2015. by Ivan Argatov and Gennady Mishuris. Hydrated Materials:

**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

**Contact problem for a thin elastic layer with**

Contact problem for a thin elastic layer with variable thickness: Application to sensitivity analysis of articular contact mechanics

**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

**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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**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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**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.

**Contact mechanics**

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**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.

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