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Biomechanics of the human knee joint in compression: reconstruction, mesh generation and finite element analysis

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Summary

Computer assisted tomography with direct digitization and measurements were used to reconstruct the detailed geometry of an ordinary human knee joint specimen. These data were then merged with a mesh generation algorithm and material properties reported in the literature to develop a three-dimensional non-linear finite element model of the knee joint. This model consists of three bony structures (tibia, femur and patella), their articular cartilage layers, medial and lateral menisci, and five principal ligaments (collaterals, cruciates and patellar tendon). The menisci are represented as a non-homogeneous composite of a solid matrix reinforced by radial and circumferential collagen fibres. The articulation of cartilage layers with each other as well as with intervening menisci and the wrapping of the medial collateral ligament with tibia are treated as general large displacement frictionless contact problems. The incremental response of the tibiofemoral joint in full extension is determined under axial forces of up to 1000 N applied on the femur. Analysis are carried out with the tibia fixed while the femur is set free to translate in medial-lateral, anterior-posterior, and proximal-distal directions; the internal-external rotation is either left free or fixed. Cases simulating total meniscectomy are also considered. The joint exhibits a non-linear stiffening response in the axial direction with large oriented displacements. At 1000 N, the load transferred through the joint is found to be greater for the lateral compartment than for the medial compartments and as the cartilage cartilage contact than at the meniscus-cartilage contact. The menisci, tuncly attached by their horns to the tibia, are radially extruded under the axial compression and create greater contact areas and smaller, more uniform, contact pressures. Removal of menisci markedly increases the primary and coupled laxities of the joint, reduces total contact areas, and increases contact stresses. The predictions are in general agreement with measurements reported in the literature.

Key words: Reconstruction, knee joint, meniscectomy, finite element modelling

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Introduction

The human knee joint is distinguished by its complex three-dimensional geometry and multibody articulation, that generate complex mechanical responses under physiological loads. The knee joint compliance and stability requires for optimal duty function are provided by various articulations, menisci, ligaments and muscle forces. A proper understanding of knee joint bio-

mechanics significantly improves the prevention and treatment of knee joint disorders and injuries. Total knee arthroplasty and prosthetic ligament replacement are two examples that directly benefit from such knowledge.

Knee joint mechanics have consequently been the subject of a large number of studies, the majority of which are experimental and aim at the measurement of the gross multidirectional load-displacement response of the joint under both intact and perturbed states¹⁻⁴. Measurements have also been reported on the biomechanical role of the ligaments and menisci⁵⁻¹¹, as well as the mechanism of load transfer and contact areas and pressures at the tibiofemoral and

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Table of Contents Pdf Reconstruction Dynamics Biomechanics Engineering Analysis

1. Understanding the eBook Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - The Rise of Digital Reading Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Personalized Recommendations
 - Pdf Reconstruction Dynamics Biomechanics Engineering Analysis User Reviews and Ratings
 - Pdf Reconstruction Dynamics Biomechanics Engineering Analysis and Bestseller Lists
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 - ePub, PDF, MOBI, and More
 - Pdf Reconstruction Dynamics Biomechanics Engineering Analysis Compatibility with Devices
 - Pdf Reconstruction Dynamics Biomechanics Engineering Analysis Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Highlighting and Note-Taking Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Interactive Elements Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 8. Staying Engaged with Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 9. Balancing eBooks and Physical Books Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Setting Reading Goals Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Fact-Checking eBook Content of Pdf Reconstruction Dynamics Biomechanics Engineering Analysis
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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