

#### DOOR HISTORYSONS IN A

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

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#### South manny

Computer assisted tomography with direct digitization and measurements were used to himons into the detailed geometry of an entire human knee joint specimen. These data were run morgod with a mosh generation algorithm and material properties reported in the iterature to develop a three dimensional non-linear finite element model of the knee joint. This model consists of three home structures fithis, femur and patellal, their artiquism conflinge layers, medial and lateral menicoi, and five principal igamenta (colleterals, countries and parinter tendent. The member on represented as a non-homogeneous surgensity of a solid matrix reinforced by radial and circumferential colleges fibres. The untimited unjut conflicted by the path of the particular and the second of the second wronping of the mortial colleged scament with tible are treated as general large ultip unament frictionless contact problems. The incremental response of the tibliofernoral nint in the Lewtonsion is date mined under exial forces of up to 1000 N applied on the forms. Authlyson are curried out with the tibis fixed while the femur is set free to trenslate in modial lateral, anterior posterior, and proxima-distal directions; the internal-external round on a cither left free or fixed. Cases simulating total menispectury are also ones'deted. The joint exhibits a non-linear stiffening response in the axial direction with furning counted displacements. At 1000 N, the icod transferred through the wint is lound to tio promot for the lateral compartment than for the medial corrugationers and as the manifold continue contact then at the meniscus—eartilege contact. The menuou Lindy attached by their horns to the ribia, are radially extruded under the soils corresponding and cause greater contact areas and smaller, more uniform, contact pressures, Removed of monisci markedly increases the primary and couples lacities of the point, recurres until contest areas, and increases contact stresses. The predictions are in general agreement with measurements reported in the literature.

Coy words: Niconechanica, k we joint, investigancioning, finite o encost madelling

The Knee Vo. 2, No. 2, 89-79, 1986

#### Introduction.

The human knee joint is distinguished by its complex terms distinguished generated geometry and anticibedy articulations, that generate complex mechanics, respects a under physiologies books. The knee joint compliance and sability requires for optimal daily function are provided by victous articulations, mentics, ligarizants and muscle forces. A proper understanding of knee joint bio-

mechanics significantly improves the prevention and traditions of lines joint disorders and injuries. Tous, knee at lineptisty and prosthetic ligament replacement are two examples that directly benefit from such kneedadge.

Knee joint asselsacies have consequently been the surject of a large number of studies, the majority of which are experimental and aim at the measurement of the price multidirectional load-of-phasement response of the joint under took inact and perturbed states." "Measurement's larve also been reported on the bounceassical role of the ligaments and remine?" to well as the mechanism of load transfer and contact arrays and pressures at the tibioferious and

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