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ME 251 (JAN) 3:0

Biomechanics

Instructor(s): Namrata Gundiah

Course description:

Bone and cartilage, joint contact analysis, structure and composition of biological tissues. Continuum mechanics, constitutive equations, nonlinear elasticity, rubber elasticity, arterial mechanics. Introduction to cell mechanics.

Prerequisites:

Resources:

Humphrey, J.D., Cardiovascular Solid Mechanics, Springer-Verlag, 2002. Fung, Y.C., Biomechanics, Springer-Verlag, 1990. Holzapfel, G. A., Nonlinear Solid Mechanics, Wiley, 2000.

Outcomes:

Additional information:

Course website: