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biomechanical engineering background. To this end, biomechanical character ... Fundamentals of biomechanics in tissue engineering of bone Tissue Eng. 2000 Aug;6(4):361-81. doi: 10.1089/107632700418083. ...

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This eight-chapter monograph intends to present basic principles and applications of biomechanics in bone tissue engineering in order to assist tissue engineers in design and use of tissue-engineered products for repair and replacement of damaged/deformed bone tissues. Briefly, Chapter 1 gives an overall review of biomechanics in the field of bone tissue engineering.

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analysis of human movement. The philosophy is to blend up-to-date biomechanical knowledge (with extensive referencing for student study) with professional application knowledge.

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Our muscles function based on how our brain tells them to function; muscles are slaves to the orders given to them by the brain. How our muscles function determines how our joints move individually and in larger coordinated patterns to produce movement. Even though muscle function and movement are ultimately determined by the outputs of the nervous system, understanding the components of the human machine and how things work together biomechanically is still important.

Biomechanics 101: Making Sense of the Human

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analysis of human movement. The philosophy is to...

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the nine principles of biomechanics can be subdivided into principles related to human movement (balance, inertia, coordinated continuum, force-motion, force-time, segmental interaction, range of motion) and projectiles (spin and optimal projectile)

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Biomechanics

Fundamentals of Biomechanics introduces the  
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