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Traditionally, applications of biomechanics will model system-level aspects of the human body. As a result, the majority of technological progress to date appears in system-level device development. More recently, biomechanical initiatives are investigating biological sub-systems such as tissues, cells, and molecules.

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CHAPTER 6: THE BIOMECHANICS OF HUMAN SKELETAL MUSCLE ____ 1. Which of the following is a behavioral property of muscle tissue? A. ability to develop tension B. extensibility C. irritability D. all of the choices are correct ____ 2. Which of the following is a unique behavioral property of muscle tissue? A. ability to develop tension

Tissue Biomechanics and Bioengineering Laboratory ...

Section 3, Chapter 6: Biomechanics of Motion Preservation Technologies. Peter McCombe, Ashish Diwan, and Hans-Joachim Wilke. INTRODUCTION. Movement of the spine is important for all activities of daily living, work and leisure. Spinal movement is essential to change posture to adapt the spinal curves, particularly in the sagittal plane, to bear ...

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Chapter 6. The Biomechanics of Human Skeletal Muscle ...

The Tissue Biomechanics and Bioengineering Laboratory focuses on tissue biomechanics and regeneration. Our goal is to identify the essential mechanisms that determine optimal physiological functions, determine structural and mechanical abnormalities in diseases and injuries, and facilitate better biomimetic replacement development, surgical intervention and protective designs.

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1 Chapter 6 Biomechanics of Skeletal Muscle Behavioral Properties of the Musculotendinous Unit 1) extensibility: ability to be stretched or to increase in length 2) elasticity: ability to return to normal resting length following a stretch 3) irritability: ability to respond to a stimulus 4) ability to develop tension: the contractile component of muscle function

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Chapter 5 discusses the structure and properties of scaffolds currently used for bone tissue engineering applications. Chapter 6 gives a brief discussion of current mechanical and structural tests of repair/tissue engineered bone tissues. Chapter 7 summarizes the properties of repair/tissue engineered bone tissues currently attained.

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CHAPTER 6 BIOMECHANICS OF THE MUSCULOSKELETAL SYSTEM

This chapter discusses the behavioral properties of muscle tissue, the functional organization of skeletal muscle, and the biomechanical aspects of muscle function. The four behavioral properties of muscle tissue are extensibility, elasticity, irritability, and the ability to develop tension.

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Behavioral Properties of the Components of Elasticity

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thin, smooth actin filaments. The I bands contain only thin actin filaments.

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