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Cardiovascular Solid Mechanics: Cells, Tissues, and Organs ...

The vitality of the cardiovascular system, which consists of the heart, vas culature, and blood, depends on its response to a host of complex stimuli, including biological, chemical, electrical, mechanical, and thermal.

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ME/BE 788: Soft Tissue Biomechanics

Biological fluid mechanics, or biofluid mechanics, is the study of both gas and liquid fluid flows in or around biological organisms. An often studied liquid biofluid problem is that of blood flow in the human cardiovascular system. Under certain mathematical circumstances, blood flow can be modeled by the Navier-Stokes equations.

Biomechanics - Wikipedia

Cardiac Mechanics. The vitality of the cardiovascular system, which consists of the heart, vas culature, and blood, depends on its response to a host of complex stimuli, including biological, chemical, electrical, mechanical, and thermal. The focus of this book, however, is on the response of the heart and arteries to mechanical loads from...

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Cardiovascular Solid Mechanics : Cells, Tissues, and ...

Abstract. The primary function of the cardiovascular system is mass transport, that is, the transport of oxygen, carbon dioxide, nutrients, waste products, hormones, etc., within the body. This system consists primarily of the heart, which serves as the pump, the blood, which serves as the conducting medium, and the vasculature,...

Cardiovascular Solid Mechanics: Cells, Tissues, and Organs ...

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Cardiovascular Solid Mechanics - Cells, Tissues, and ...

Cardiovascular Solid Mechanics: Cells, Tissues, and Organs. Focusing on the response of the heart and blood vessels to mechanical loads from the perspective of nonlinear solid mechanics, its primary goal is to integrate basic analytical, experimental, and computational methods to offer a more complete understanding of the underlying mechanobiology.

Cardiovascular Solid Mechanics Cells Tissues

Cardiovascular Solid Mechanics: Cells, Tissues, and Organs [Jay D. Humphrey] on Amazon.com. *FREE* shipping on qualifying offers. This text presents a general introduction to soft tissue biomechanics. One of its primary goals is to introduce basic analytical

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The vitality of the cardiovascular system, which consists of the heart, vas culature, and blood, depends on its response to a host of complex stimuli, including biological, chemical, electrical, mechanical, and thermal. The focus of this book, however, is on the response of the heart and arteries to mechanical loads from the perspective of nonlinear solid mechanics.

The Cardiovascular System — Anatomy, Physiology and Cell ...

In particular, the response of the heart, vasculature, and tissue scaffolds to mechanical loads from the perspective of nonlinear solid mechanics will be studied. Constitutive models for hyperelastic materials will be adapted to biomaterials to handle mechanical characteristics such as nonlinearity, viscoelasticity, and orthotropy.

Cardiovascular Solid Mechanics: Cells, Tissues, and Organs ...

A wealth of references is proof that Cardiovascular Solid Mechanics: Cells, Tissues, and Organs is not just intended as a text, but also as a valuable

reference for researchers in soft-tissue mechanics. It should be purchased by libraries for general use and by individuals that would like to have an excellent, handy, comprehensive, and useful ...

Cardiovascular solid mechanics : cells, tissues, and ...

The major function of vascular smooth muscle cells (SMCs) is to contract in response to the stretch resulting from pulsatile blood flow, a process that is dependent on the cyclic interaction between thin filaments, composed of the SMC-specific isoform of α -actin (SM α -actin, encoded by ACTA2), and thick filaments, composed of SMC-specific β -myosin.

Mutations in Smooth Muscle Alpha ... - PubMed Central (PMC)

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