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Tissue Mechanics (Hardback)

By Stephen C. Cowin, Stephen B. Doty

Springer-Verlag New York Inc., United States, 2006. Hardback. Book Condition: New. 2007. 556 x 424 mm. Language: English . Brand New Book. The structures of living tissues are continually changing due to growth and response to the tissue environment, including the mechanical environment. Tissue Mechanics is an in-depth look at the mechanics of tissues. Tissue Mechanics describes the nature of the composite components of a tissue, the cellular processes that produce these constituents, the assembly of the constituents into a hierarchical structure, and the behavior of the tissue s composite structure in the adaptation to its mechanical environment. Organized as a textbook for the student needing to acquire the core competencies, Tissue Mechanics will meet the demands of advanced undergraduate or graduate coursework in Biomedical Engineering, as well as, Chemical, Civil, and Mechanical Engineering. Key features: * Detailed Illustrations * Example problems, including problems at the end of sections * A separate solutions manual available for course instructors * A website (that has been established to provide supplemental material for the book, including downloadable additional chapters on specific tissues, downloadable PowerPoint presentations of all the book s chapters, and additional exercises and examples for the existing chapters. About the...



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