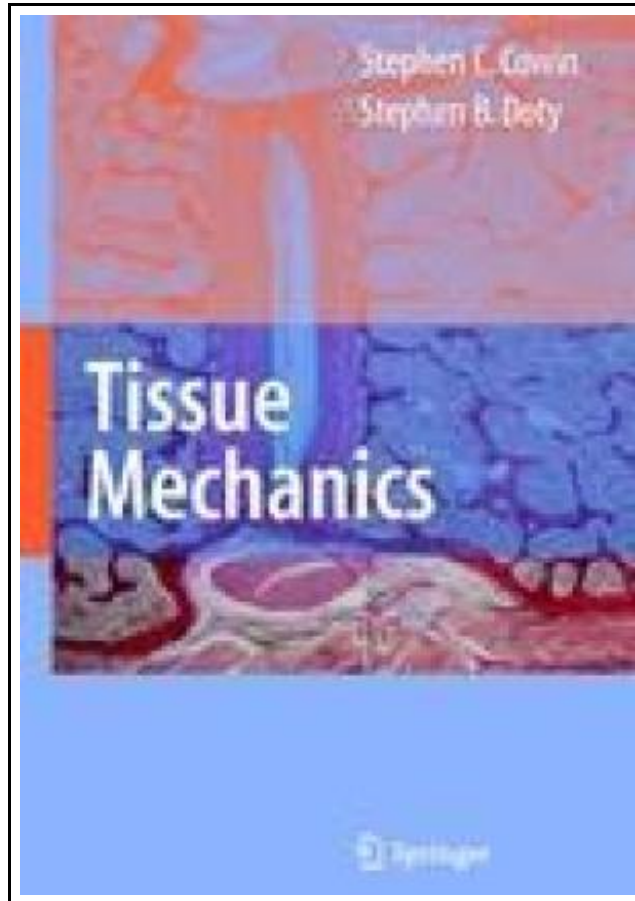


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Springer Feb 2010, 2010. Taschenbuch. Book Condition: Neu. 254x178x37 mm. This item is printed on demand - Print on Demand Titel. - Tissue Mechanics Stephen C. Cowin and Stephen B. Doty Tissue Mechanics, Second Edition is about the mechanics of tissues for use at the advanced undergraduate level or above. Tissues transmit mechanical loads just like bridges and building structures. Not only do they transmit loads, but also they adapt their own structures so that the structures will transmit the mechanical loads more effectively, unlike bridges and building structures. The structures of living tissues are continually changing due to growth and response to the tissue environment, including the mechanical environment. The objective of this text is to describe 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. A tissue s mechanical environment is the history of mechanical loading experienced by the tissue in some reference time period, like a day. The most important features of the textbook are its middle level, neither too advanced nor too elementary, its fresh perspective on older material issues, and the inclusion of new research results carefully crafted onto this intermediate base of mechanics. Key Features: An introductory chapter on the structure of tissues and the fascinating unresolved problems concerning how biological tissues are formed and constructed. Detailed illustrations and included (with book/author watermark) on CD for tutorial / instructional use Example problems to provide the student with hands-on experience with concepts Extensive appendices and tutorial materials on new developments including expanded treatment of ceramic materials and implants Detailed references for further reading Solutions Manual on CD for Bona Fide Instructors (separate entity;...



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