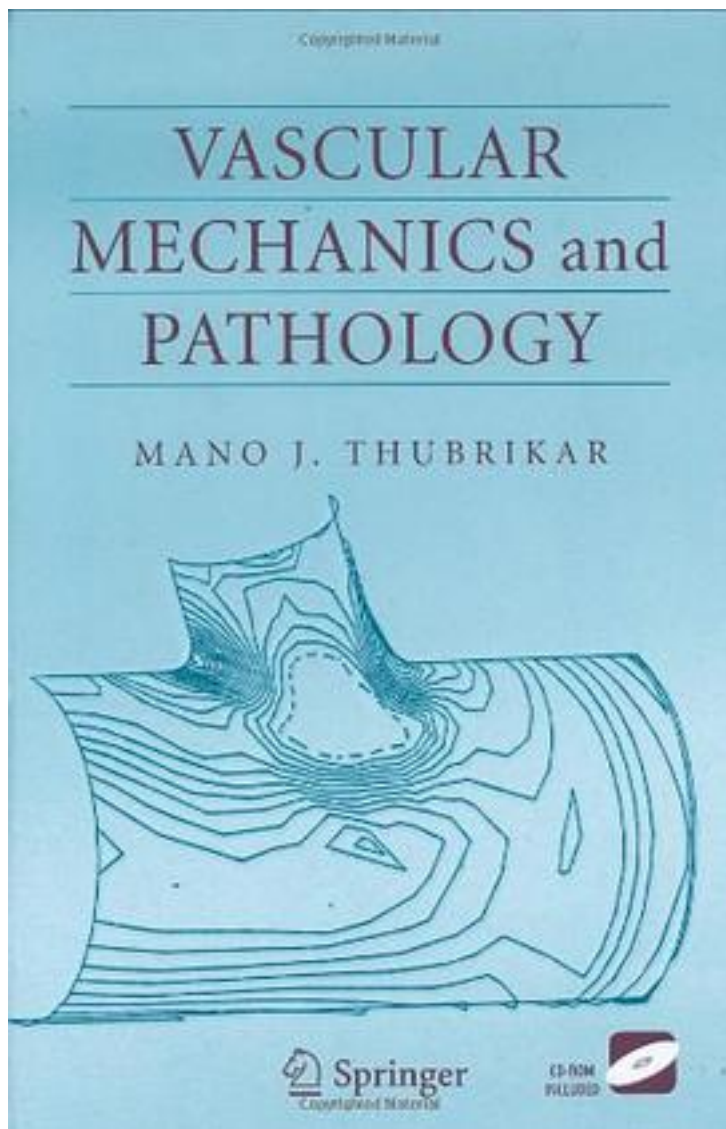


Vascular Mechanics and Pathology



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The purpose of the book is to bring the two disciplines - vascular mechanics and pathology - together. In addition, the book bridges the gap in our knowledge and enhances engineering applications in medicine. This cutting-edge work presents the use of veins as arterial grafts and discusses the role of vein valves in graft stenosis. The book illustrates aneurysm formation, growth, and rupture, using pressure vessel principles. This new work details the investigation of, amongst other topics, aortic dissection, showing for the first time that the aortic root mechanics plays a vital role in the development of this pathology.

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