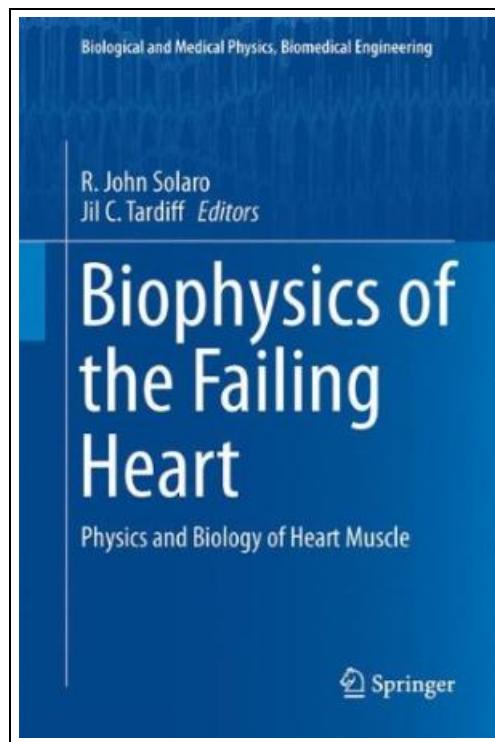


Biophysics of the Failing Heart: Physics and Biology of Heart Muscle



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Reviews

This book can be worthy of a read, and much better than other. It usually fails to charge a lot of. I realized this publication from my dad and i encouraged this pdf to understand.
(Prof. Flo Cruickshank DDS)

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Springer. Hardcover. Book Condition: New. Hardcover. 253 pages. Dimensions: 9.2in. x 6.4in. x 0.8in. Subjects in the monograph Biophysics of the Failing Heart include state of the art chapters considering major biophysical mechanisms for why hearts responding to acquired or inherited stressors enter into maladaptive processes eventually leading to an inability of the heart to respond efficiently to hemodynamic loads especially during exercise. The chapters describe biophysical techniques that have been applied to determine the triggers for the heart failure process as well as the mechanisms for sustaining the disorders. These techniques include measurements of active and passive mechanical properties and hemodynamics at levels of organization ranging from molecules to hearts beating *in situ*. Biophysical concepts and approaches are also applied to determination of signaling and signal transduction, energetics, ionic currents, transport processes, electro-chemical and chemo-mechanical coupling. By its emphasis on biophysical aspects of a prevalent clinical condition, the monograph is unique in its perspective and focus. The breadth of information in the chapters all in one place will be of value to clinicians and researchers at all levels. Modern research approaches and clinical understanding of heart failure demands integration of multiple aspects of the disorders. In most cases, combinations of clinician scientists and researchers author the chapters. A main benefit of the book is couched in its didactic approach together with its emphasis on how biophysical concepts and techniques aid in diagnosis and development of new therapies. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.

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