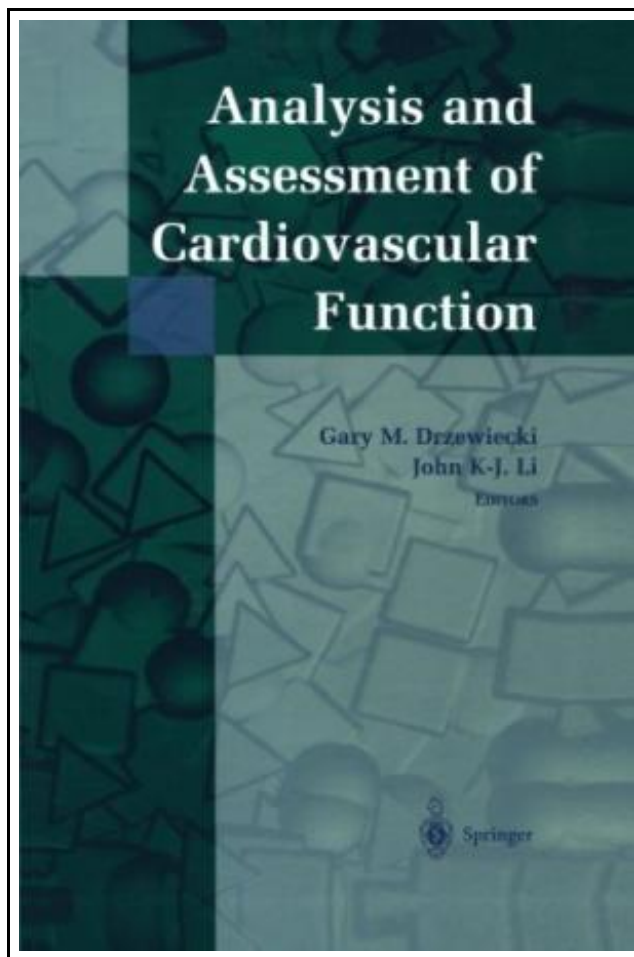


Analysis and Assessment of Cardiovascular Function



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Book Condition: New. Publisher/Verlag: Springer, Berlin | The objective of this book is to provide the researcher and clinician with the recent developments in the analysis and assessment of cardiovascular function. The chapters are organized into sections that correspond with the various anatomical levels of the cardiovascular system. To a large extent, recent focus on the cardiovascular system function has been directed at the molecular level to the near exclusion of the tissue and organ function. While this may be useful in developing new therapeutic drugs, it does not aid the cardiologist or surgeon, who routinely deal with patient symptoms. This book integrates the micro-level and organ-level function so that new information may be assimilated into the cardiovascular system as a whole. Within each section, the chapters have been arranged to progress from recent theoretical developments, to experimental research, and finally to clinical applications. This approach facilitates the timely transfer of information from basic research to the clinic. The strength of the analytical approach will be evident to the reader. The theoretical analysis offers guidance to experimental design and, in some cases, offers solutions where measurements are as yet unattainable. In moving from newly attained knowledge to clinical practice, this book emphasizes the noninvasive method in the future as technological advances occur. Such methods are desirable and the trend towards early preventive diagnosis is sought. What follows are highlights of new developments covered in each section of the book. | 1. Cardiovascular Function.- 1. Cardiovascular Concepts in Antiquity.- 2. A New Approach to the Analysis of Cardiovascular Function: Allometry.- 2. Cardiac Muscle.- 3. Muscle Contraction Mechanics from Ultrastructural Dynamics.- 4. Crossbridge Cycling and Cooperative Recruitment Can Account for Oscillatory Dynamics of Constantly Activated Heart.- 5. Modeling Reversible Mechanical Dysfunction in the Stunned Myocardium.- 6. Computer-Based Myocardial...



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