



The Arterial Circulation: Physical Principles and Clinical Applications

John K-J Li

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After yet another decade of learning, experimenting, and investigating since my first book, Arterial System Dynamics, the many new medical breakthroughs and technological advances have inspired me to write this book to bridge the gap between basic research and clinical applications. The application of physical principles and quantitative approaches to the understanding of the arterial circulation and its interactions with the heart in normal and diseased conditions form the basis of The Arterial Circulation. Knowledge of the physiology and rheology of arteries, as well as all of their structural-functional correlates, is a necessary prerequisite to the proper hemodynamic interpretation of pressure-flow relations and the pulsatile transmission characteristics in different arteries. The natural coupling and interactions of the heart, the coronary circulation, and the arterial system necessitate analysis of alterations to global functioning. Modeling provides a tool for isolating and predicting parameter changes and is employed throughout the book. Experimental data are provided for model validations, and also for more realistic interpretations. Techniques and new methods for clinical hemodynamic measurement and diagnosis are included to help the reader understand the physical principles underlying such abnormal cardiovascular functions as hypertension, stenosis, and myocardial ischemia. The progressive changes in vascular properties during aging are also discussed. Modern approaches utilizing computer modeling and allometry are presented with selected examples, such as combined hypertension and aortic valve stenosis, and ventricular hypertrophy.



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