



Intra and Extracorporeal Cardiovascular Fluid Dynamics (Advances in Fluid Mechanics)

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Volume 1 - Engineering science is presently contributing enormously to the improvement of quality of health and patient care, and physicians, clinical engineers and paramedics are increasingly dependent on high-tech apparatus for diagnosis, therapy or research. This technical revolution has encouraged the use of fluid dynamic principles for solving flow and fluid problems within the cardiovascular system, in extracorporeal circulation and artificial organs. Featuring a collection of expert reviews in lecture note format, Intra and Extracorporeal Cardiovascular Fluid Dynamics: General Principles in Application contains contributions from active members of international biomedical engineering organisations such as the IFMBE, the ISAO, the ESEM, the ESAO and the INFA. A comprehensive introduction for students, it also provides a state-of-the-art guide for investigators working in this fascinating and complex field. Volume 2 - This book contains a collection of expert reviews of new computational techniques to simulate blood-wall interaction in the cardiovascular system. It is the result of two three-day courses organised within the COMETT (Community Action Programme for Education and Training for Technology) programme of the European Community and many of the contributors are active members of international biomedical organisations such as the IFMBE, the ESEM, the ESAO, the INFA, and the ESB. Featuring a collection of expert reviews in lecture note format, the text provides both a comprehensive introduction for students, and a state-of-the-art guide for investigators working in the fascinating and complex field of computational cardiovascular mechanics.

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