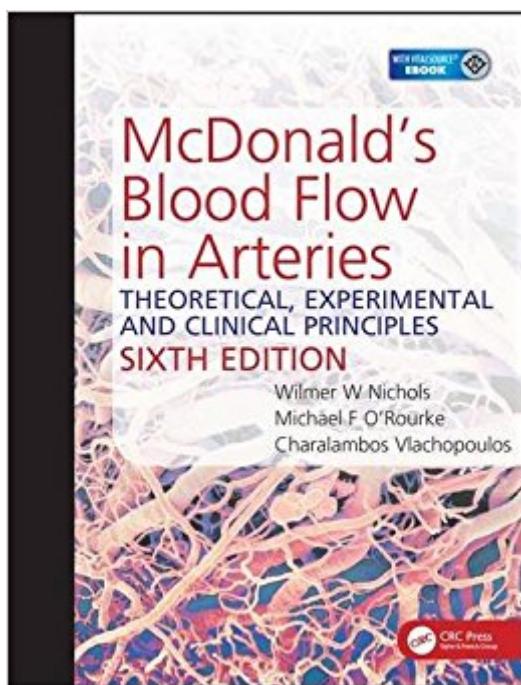


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# McDonald's Blood Flow In Arteries, Sixth Edition: Theoretical, Experimental And Clinical Principles



## Synopsis

For over fifty years, McDonald's Blood Flow in Arteries has remained the definitive reference work in the field of arterial hemodynamics, including arterial structure and function with special emphasis on pulsatile flow and pressure. Prestigious, authoritative and comprehensive, the sixth edition has been totally updated and revised with several new chapters. This edition continues to provide the theoretical basis required for a thorough understanding of arterial blood flow in both normal and pathological conditions, while keeping clinical considerations and readability paramount throughout the text. New for the sixth edition McDonald's groundbreaking waveform analysis is extended to explain ill effects of aging on the aorta and heart, and on the small blood vessels of vital organs - brain and kidneys. Rigorous theory and methodology are combined to show relevance of blood pressure and flow pulsations to individual clinical problems and to results of the most recent epidemiological studies and clinical trials. Written by a small tightly-knit group to provide consistency and easy reference of normal and abnormal functions in arteries of all sizes in humans, experimental animals, and realistic computer models. Now available in a digital version, together with this book, to provide instant access to this invaluable reference resource. Erudite, definitive yet thoroughly practical, McDonald's Blood Flow in Arteries is essential reading for modern cardiologists, intensive care physicians, anesthesiologists, gerontologists, diabetologists, nephrologists and neurologists as well as physiologists, pharmacologists and epidemiologists.

## Book Information

Hardcover: 768 pages

Publisher: CRC Press; 6 edition (July 29, 2011)

Language: English

ISBN-10: 0340985011

ISBN-13: 978-0340985014

Product Dimensions: 11 x 1.8 x 8.4 inches

Shipping Weight: 5.2 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 6 customer reviews

Best Sellers Rank: #1,100,972 in Books (See Top 100 in Books) #56 in Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Surgery > Vascular #169 in Books > Medical Books > Medicine > Surgery > Thoracic & Vascular #664 in Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Cardiology

## Customer Reviews

"With this new edition, this classic text should continue as the standard reference in the field of arterial hemodynamics. There are several excellent new chapters on various disease processes and techniques for the measurement of arterial function. These chapters significantly add to the value of the new edition to cardiologists and basic researchers."--Doody's Journal --This text refers to an out of print or unavailable edition of this title.

Wilmer W Nichols PhD - Department of Medicine and Physiology, University of Florida College of Medicine, Gainesville, FL, USAMichael F O'Rourke MD DSc - Cardiovascular Department, St Vincent's Clinic and Hospital, University of New South Wales, Sydney, NSW, AustraliaCharalambos Vlachopoulos MD - 1st Department of Cardiology, Athens Medical School, Hippokration Hospital, Athens, Greece

This classic text, first published in 1960 and introducing at that time an entirely new approach to the study of arterial haemodynamics, provides a theoretical basis to understanding blood flow in normal and disease conditions. It examines the relationship between pulsatile pressure and flow in the arteries using a mathematical model of fluid flow principles.

Best reference guide out there on pulsatile flow, compliance, and impedance. Well worth the purchase.

Some of the material is more scientific and statistical than I understand, but my heart problem and high pretension are explained. Also facts about nutrition and causes of health problems were identified very emphatically

THE BOOK on circulation in arteries -- thorough, clear, up-to-date, and complete; continues the tradition set by the earlier editions.

I was delighted to obtain this book at a quarter of the RRP. The book was in great condition and I highly recommended this to others.

This book is an amazing reference. It is a hardcore scientific look at the flow of blood through arteries. It's about time this edition was released, because the last edition is more than ten years old. The book is separated into chapters that are really monographs on their respective subjects.

The authors do an excellent job of giving a bird's eye view of each topic and then go into far more detail than most people will be able to understand (myself included). But don't let that scare you away from the book. Even if you don't understand all the physics and thermodynamics, you can still grasp the principles. If you have read any of the authors' journal articles, you know that their view of arterial bloodflow is much deeper than the mainstream medical community. This book explains the prevailing thought and then shows the shortcomings of conventional wisdom and presents the research that leads to a deeper understanding. Please do not think that this makes the book controversial. It is simply that most education on vascular physiology is nowhere near this deep or comprehensive. This is not truly a textbook. It is the ultimate reference for arterial bloodflow. Every serious student of the heart or vascular physiology should have this book in their library, and every researcher should have it on their shelf.

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