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To classify a book as 'experimental' rather than 'theoretical' or as 'pure' rather than 'applied' is liable to imply unequal distinctions. Nevertheless, some classification is necessary to tell the potential reader whether the book is for him. In this spirit, this book may be said to treat fluid dynamics as a branch of physics, rather than as a branch of applied mathematics or of engineering. I have often heard expressions of the need for such a book, and certainly I have felt it in my own teaching. I have written it primarily for students of physics and of physics-based applied science, although I hope others may find it useful. The book differs from existing 'fundamental' books in placing much greater emphasis on what we know through laboratory experiments and their physical interpretation and less on the mathematical formalism. It differs from existing 'applied' books in that the choice of topics has been made for the insight they give into the behaviour of fluids in motion rather than for their practical importance. There are differences also from many existing books on fluid dynamics in the branches treated, reflecting to some extent shifts of interest in recent years. In particular, geophysical and astrophysical applications have prompted important fundamental developments in topics such as convection, stratified flow, and the dynamics of rotating fluids. These developments have hitherto been reflected in

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Designed for senior undergraduate or first-year graduate students in biomedical engineering, *Biofluid Mechanics: The Human Circulation, Second Edition* teaches students how fluid mechanics is applied to the study of the human circulatory system. Reflecting changes in the field since the publication of its predecessor, this second edition has been extensively revised and updated. New to the Second Edition Improved figures and additional examples More problems at the end of each chapter A chapter on the computational fluid dynamic analysis of the human circulation, which reflects the rapidly increasing use of computational simulations in research and clinical arenas Drawing on each author's experience teaching courses on cardiovascular fluid mechanics, the book begins with introductory material on fluid and solid mechanics as well as a review of cardiovascular physiology pertinent to the topics covered in subsequent chapters. The authors then discuss fluid mechanics in the human circulation, primarily applied to blood flow at the arterial level. They also cover vascular implants and measurements in the cardiovascular system.

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