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Biofluid Mechanics The Human Circulation

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Biofluid Mechanics | ScienceDirect

This edition contains updated information on pulsatile flow modeling and a brand-new chapter that explains renal biofluids. The book also features online materials for both students and instructors, including a solutions manual. • Review of biofluid mechanics concepts • Cardiovascular structure and function

Up-To-Date Coverage of Biofluid Mechanics and Applications in Medical Devices This thoroughly revised textbook shows how fluid mechanics works in the human circulatory system and offers cutting-edge applications in the development and design of medical instruments, equipment, and procedures. Applied Biofluid Mechanics, Second Edition, examines cardiovascular anatomy and physiology, hematology, blood vessel histology and function, heart valve mechanics and prosthetic valves, stents, pulsatile flow in large arteries, measurements, dimensional analysis, and more. This edition contains updated information on pulsatile flow modeling and a brand-new chapter that explains renal biofluids. The book also features online materials for both students and instructors, including a solutions manual. • Review of biofluid mechanics concepts • Cardiovascular structure and function • Pulmonary anatomy and physiology and respiration • Hematology and blood rheology • Anatomy and physiology of blood vessels • Mechanics of heart valves • Pulsatile flow in large arteries • Flow and pressure measurement • Modeling • Lumped

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Improve Your Grasp of Fluid Mechanics in the Human Circulatory System and Develop Better Medical Devices Applied Biofluid Mechanics features a solid grasp of the role of fluid mechanics in the human circulatory system that will help in the research and design of new medical instruments, equipment, and procedures. Filled with 100 detailed illustrations, the book examines cardiovascular anatomy and physiology, pulmonary anatomy and physiology, hematology, histology and function of blood vessels, heart valve mechanics and prosthetic heart valves, stents, pulsatile flow in large arteries, flow and pressure measurement, modeling, and dimensional analysis.

Both broad and deep in coverage, Rubenstein shows that fluid mechanics principles can be applied not only to blood circulation, but also to air flow through the lungs, joint lubrication, intraocular fluid movement and renal transport. Each section initiates discussion with governing equations, derives the state equations and then shows examples of their usage. Clinical applications, extensive worked examples, and numerous end of chapter problems clearly show the applications of fluid mechanics to biomedical engineering situations. A section on experimental techniques provides a springboard for future research efforts in the subject area. Uses language and math that is appropriate and conducive for undergraduate learning, containing many worked examples and end of chapter problems All engineering concepts and equations are developed within a biological context Covers topics in the traditional biofluids curriculum, as well as addressing other systems in the body that can be described by biofluid mechanics principles, such as air flow through the lungs, joint lubrication, intraocular fluid movement, and renal transport Clinical applications are discussed throughout the book, providing practical applications for the concepts discussed.

Biofluid Mechanics: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation shows how fluid mechanics principles can be applied not only to blood circulation, but also to air flow through the lungs, joint lubrication, intraocular fluid movement, renal transport among other specialty circulations. This new second edition increases the breadth and depth of the original by expanding chapters to cover additional biofluid mechanics principles, disease criteria, and medical management of disease, with supporting discussions of the relevance and importance of current research. Calculations related both to the disease and the material covered in the chapter are also now provided. Uses language and math that is appropriate and conducive for undergraduate learning, containing many worked examples and end-of-chapter problems Develops all engineering concepts and equations within a biological context Covers topics in the traditional biofluids curriculum, and addresses other systems

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in the body that can be described by biofluid mechanics principles Discusses clinical applications throughout the book, providing practical applications for the concepts discussed NEW: Additional worked examples with a stronger connection to relevant disease conditions and experimental techniques NEW: Improved pedagogy, with more end-of-chapter problems, images, tables, and headings, to better facilitate learning and comprehension of the material

This unique resource offers over 200 well-tested bioengineering problems for teaching and examinations. Solutions are available to instructors online.

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.

"The Application of Biofluid Mechanics: Boundary Effects on Phoretic Motions of Colloidal Spheres" focuses on the phoretic motion behavior of various micron- to nanometer-size particles. The content of this book is divided into two parts: one on the concentration gradient-driven diffusiophoresis and osmophoresis, and one on thermocapillary motion and thermophoretic motion driven by temperature gradient. Diffusiophoresis and osmophoresis are mainly used in biomedical engineering applications, such as drug delivery, purification, and the description of the behavior of the immune system; thermocapillary motion and thermophoretic motion are applied in the field of semiconductors as well as in suspended impurities removal. The book also provides a variety of computer programming source codes compiled using Fortran for researchers' future applications. This book is intended for chemical engineers, biomedical engineers and scientists, biophysicists and fundamental chemotaxis researchers.

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Dr. Po-Yuan Chen is an Assistant Professor at the Department of Biological Science and Technology, China Medical University, Taichung, Taiwan.

This graduate text provides a unified treatment of the fundamental principles of two-phase flow and shows how to apply the principles to a variety of homogeneous mixture as well as separated liquid-liquid, gas-solid, liquid-solid, and gas-liquid flow problems, which may be steady or transient, laminar or turbulent. Each chapter contains several sample problems, which illustrate the outlined theory and provide approaches to find simplified analytic descriptions of complex two-phase flow phenomena. This well-balanced introductory text will be suitable for advanced seniors and graduate students in mechanical, chemical, biomedical, nuclear, environmental and aerospace engineering, as well as in applied mathematics and the physical sciences. It will be a valuable reference for practicing engineers and scientists. A solutions manual is available to qualified instructors.

Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations—whether in the liquid or gaseous state or both—is introduced and comprehensively covered in this widely adopted text. Fully revised and updated with the addition of a new chapter on biofluid mechanics, Fluid Mechanics, Fourth Edition is suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level. The leading advanced general text on fluid mechanics, Fluid Mechanics, 4e guides students from the fundamentals to the analysis and application of fluid mechanics, including compressible flow and such diverse applications as hydraulics and aerodynamics. Updates to several chapters and sections, including Boundary Layers, Turbulence, Geophysical Fluid Dynamics, Thermodynamics and Compressibility. Fully revised and updated chapter on Computational Fluid Dynamics. New chapter on Biofluid Mechanics by Professor Portonovo Ayyaswamy, the Asa Whitney Professor of Dynamical Engineering at the University of Pennsylvania. New Visual Resources appendix provides a list of fluid mechanics films available for viewing online. Additional worked-out examples and end-of-chapter problems. Updated online Solutions Manual for adopting instructors.

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