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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 parameter mathematical models • Renal biofluids

Biofluid Mechanics: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation, Third Edition 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, and other specialty circulations. This new edition contains new homework problems and worked examples, including MATLAB-based examples. In addition, new content has been added on such relevant topics as Womersley and Oscillatory Flows. With advanced topics in the text now denoted for instructor convenience, this book is particularly suitable for both senior and graduate-

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level courses in biofluids. Uses language and math that is appropriate and conducive for undergraduate and first-year graduate learning Contains new worked examples and end-of-chapter problems Covers topics in the traditional biofluids curriculum, also addressing other systems in the body Discusses clinical applications throughout the book, providing practical applications for the concepts discussed Includes more advanced topics to help instructors teach an undergraduate course without a loss of continuity in the class

**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.

**Biofluid Mechanics: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation, Second Edition** provides a broad depth of coverage of the subject matter, showing 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 in renal transport. Clinical applications, extensive worked examples, and numerous end-of-chapter problems clearly show the applications of fluid mechanics to biomedical engineering situations. In this updated edition, chapters have been extended to cover disease criteria, medical management of the discussed diseases, calculations related both to the disease and the material covered in the chapter, and overall relevance in relation to current research. In addition, a section on Modeling and Experimental Techniques has been extended to provide a more thorough discussion of biofluid mechanics techniques. 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, and addresses 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. Additional worked examples with a stronger connection to relevant disease conditions and experimental techniques are new to this edition Contains improved pedagogy, with more end-of-chapter problems, images, tables, and headings, to better facilitate learning and comprehension of the material

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.

Requiring only an introductory background in continuum mechanics, including thermodynamics, fluid mechanics, and solid mechanics, **Biofluid Dynamics: Principles and Selected Applications** contains review, methodology, and application chapters to build a solid understanding of medical implants and devices. For additional assistance, it includes a glossary of biological terms, many figures illustrating theoretical concepts, numerous solved sample problems, and mathematical appendices. The text is geared toward seniors and first-year graduate students in engineering and physics as well as professionals in medicine and medical implant/device industries. It can be used as a primary selection for a comprehensive course or for a two-course sequence. The book has two main parts: theory, comprising the first two chapters; and applications, constituting the remainder of the book. Specifically, the author reviews the fundamentals of physical and related biological transport phenomena, such as mass, momentum, and heat transfer in biomedical systems, and highlights complementary topics such as two-phase flow, biomechanics, and fluid-structure interaction. Two appendices summarize needed elements of engineering mathematics and CFD software applications, and these are also found in the fifth chapter. The application part, in form of project analyses, focuses on the cardiovascular system with common arterial diseases, organ systems, targeted drug delivery, and stent-graft implants. Armed with **Biofluid Dynamics**, students will be ready to solve basic biofluids-related problems, gain new physical insight, and analyze biofluid dynamics aspects of biomedical systems.

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.

Condensing 40 years of teaching experience, this unique textbook will provide students with an unrivalled understanding of the fundamentals of fluid mechanics, and enable them to place that understanding firmly within a biological context. Each chapter introduces, explains, and expands a core concept in biofluid mechanics, establishing a firm theoretical framework for students to build upon in further study. Practical biofluid applications, clinical correlations, and worked examples throughout the book provide real-world scenarios to help students quickly master key theoretical topics. Examples are drawn from biology, medicine, and biotechnology with applications to normal function, disease, and devices, accompanied by over 500 figures to reinforce student understanding. Featuring over 120 multicomponent end-of-chapter problems, flexible teaching pathways to enable tailor-made course structures, and extensive Matlab and Maple code examples, this is the definitive textbook for advanced undergraduate and graduate students studying a biologically-grounded course in fluid mechanics.

This textbook is concerned with the mathematical modeling of biological and physiological phenomena for mathematically sophisticated students. A range of topics are discussed: diffusion population dynamics, autonomous differential equations and the stability of ecosystems, biogeography, pharmacokinetics, biofluid mechanics, cardiac mechanics, the spectral analysis of heart sounds using FFT techniques. The last chapter deals with a wide variety of commonly used medical devices. This edition includes new chapters on epidemiology, including modeling the spread of AIDS through a population. Coverage is based on courses taught by the author over many years and the

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material is class tested. The reader is aided by many exercises that examine key points and extend the presentation in the body of the text. All students of mathematical biology will find this book to be a highly useful resource.

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