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An Introduction to Biomechanics

Solids and Fluids, Analysis and Design

Second Edition

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From the Back Cover

This textbook introduces the student to a consistent approach of formulating and solving problems involving the biomechanics of solids and fluids. Brief introductions are also provided for more complex situations that require methods of nonlinear elasticity, viscoelasticity, elastodynamics, or fluid-solid interactions. Concepts are motivated by concise descriptions of important biological, mechanical, and clinical observations and techniques. Over 300 figures are included, as well as complete derivations of the fundamental equations, solutions of over 80 example problems, and over 300 exercise problems.

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This book also:

• Guides students in developing intuitive understanding via a consistent consideration of a variety of problems including cardiovascular, musculoskeletal, pulmonary, and cell mechanics

· Enco

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• Challenges students to solve problems under common conditions experienced in the laboratory or clinic

About the Author

Jay D. Humphrey is a John C. Malone Professor of Biomedical Engineering at Yale University. He received the Ph.D. degree in Engineering Science and Mechanics from The Georgia Institute of Technology and completed a post-doctoral fellowship in Cardiovascular Research at The Johns Hopkins University. He has authored a book titled Cardiovascular Solid Mechanics: Cells, Tissues, and Organs, co-authored a book titled Style and Ethics of Communication in Science and Engineering, co-edited a book titled Cardiovascular Soft Tissue Mechanics, and authored or co-authored chapters for over 20 other books or encyclopedias as well as over 200 archival technical papers. He served as founding co-Editor In Chief for the international journal Biomechanics and Modeling in Mechanobiology and has served as Associate Editor for five other technical journals. He is a Fellow of the American Society of Mechanical Engineers (Bioengineering Division) and the American Institute of Medical and Biological Engineers.

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This book covers the fundamentals of biomechanics. Topics include bio solids, biofluids, stress, balance and equilibrium. Students are encouraged to contextualize principles and exercises within a "big picture" of biomechanics. This is an ideal book for undergraduate students with interests in biomedical engineering.

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