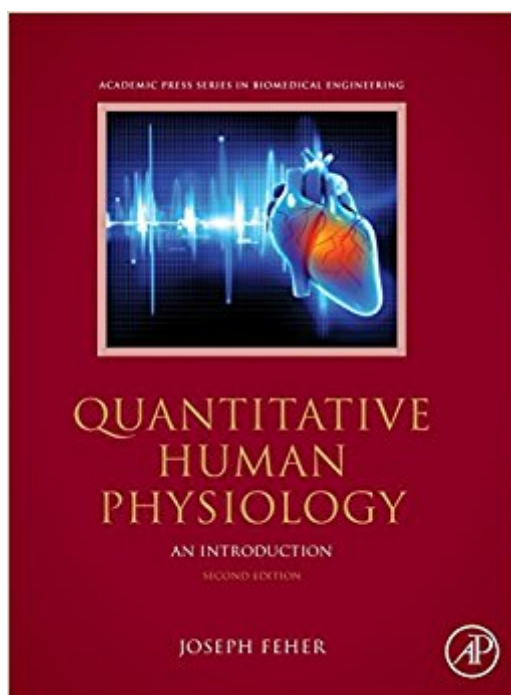


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# Quantitative Human Physiology, Second Edition: An Introduction



## Synopsis

Quantitative Human Physiology: An Introduction is the first text to meet the needs of the undergraduate bioengineering student who is being exposed to physiology for the first time, but requires a more analytical/quantitative approach. This book explores how component behavior produces system behavior in physiological systems. Through text explanation, figures, and equations, it provides the engineering student with a basic understanding of physiological principles with an emphasis on quantitative aspects. Features a quantitative approach that includes physical and chemical principles Provides a more integrated approach from first principles, integrating anatomy, molecular biology, biochemistry and physiology Includes clinical applications relevant to the biomedical engineering student (TENS, cochlear implants, blood substitutes, etc.) Integrates labs and problem sets to provide opportunities for practice and assessment throughout the course NEW FOR THE SECOND EDITION Expansion of many sections to include relevant information Addition of many new figures and re-drawing of other figures to update our understanding and clarify difficult areas Substantial updating of the text to reflect newer research results Addition of several new appendices including statistics, nomenclature of transport carriers, and structural biology of important items such as the neuromuscular junction and calcium release unit Addition of new problems within the problem sets Addition of commentary to power point presentations

## Book Information

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## Customer Reviews

Dr. Feher is professor of Physiology and Biophysics at Virginia Commonwealth University. He

received his Ph.D. from Cornell University, and has research interests in the quantitative understanding of the mechanisms of calcium uptake and release by the cardiac sarcoplasmic reticulum, in the mechanisms of calcium transport across the intestine, and in muscle contraction and relaxation. Dr. Feher developed a course in Introductory Quantitative Physiology at VCU and has been course coordinator for more than a decade. He also teaches muscle and cell physiology to medical and graduate students and is course coordinator for the Graduate Physiology survey course in physiology given at VCU's School of Medicine.

HORRIBLE textbook. Please do not choose this as a curriculum if you are an educator. The book lists chapter objectives at the beginning of the chapter. OFTEN this is the only place in the book where that word shows up. The book gives waaaaaay too much technical information and thus all of the main points are missed. The problem sets send you off on a tedious search through the chapters, often one resorts to the internet for answers instead.

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