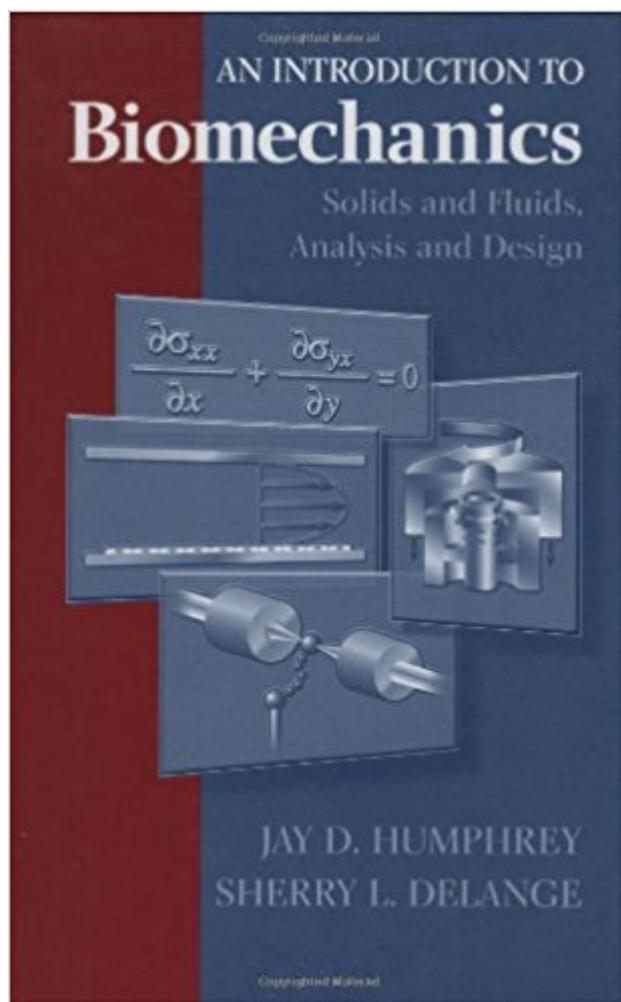


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# An Introduction To Biomechanics: Solids And Fluids, Analysis And Design



## Synopsis

Designed to meet the needs of undergraduate students, "Introduction to Biomechanics" takes the fresh approach of combining the viewpoints of both a well-respected teacher and a successful student. With an eye toward practicality without loss of depth of instruction, this book seeks to explain the fundamental concepts of biomechanics. With the accompanying web site providing models, sample problems, review questions and more, Introduction to Biomechanics provides students with the full range of instructional material for this complex and dynamic field.

## Book Information

Hardcover: 632 pages

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Average Customer Review: 4.1 out of 5 stars 5 customer reviews

Best Sellers Rank: #181,699 in Books (See Top 100 in Books) #4 in Books > Medical Books > Medicine > Prosthesis #30 in Books > Science & Math > Biological Sciences > Biophysics #49 in Books > Engineering & Transportation > Engineering > Bioengineering > Biomedical Engineering

## Customer Reviews

From the reviews: "The book under review aims to serve as an introduction to biomechanics [ ]. It is worth to note that every chapter of the book concludes with an appendix with the basic mathematical theory used in the corresponding text, and exercises. The book contains very rich references and index. After reading this book, the reader will be convinced that the aim of the book is reached [ ]. It is also a nice and useful learning tool for students, scientists and biomedical engineers [ ]." (Clementina Mladenova, Zentralblatt MATH, Vol. 1067, 2005) "An Introduction to Biomechanics offers for introducing and understanding classes of problems from a continuum perspective rather than a ^collection of special results^™. [ ] is written in a light of understanding, includes a comprehensive coverage of basics biosolid and biofluid mechanics, employs a consistent continuum approach, provides student assignments and is complimented by a website. It is a worthwhile addition to a scholar^™s library and worthy of consideration as the primary text for

undergraduate biomechanics (solids and fluids) courses." (Benjamin S. Kelley, *Annals of Biomedical Engineering*, Vol. 35 (9), September, 2007)

Hate the class but the book wasn't a beast to read. It gave a good explanation for understanding the fundamentals of the course as long as you have a little college-level science/math background.

This book is very easy to read and understand. It proved very helpful in understanding the material in class and studying for exams. A great introduction to biomechanics and a fantastic comprehensive review of solid mechanics!

The author is deeply oriented to biomechanics of fluids both in the first and second part of the book, despite the fact it is supposed to have different approaches. The first chapters are devoted to complex mathematical demonstrations of stress-strain models and materials engineering, topics that shouldn't be considered to be suitable for starting studying biomechanics. Definitely not an introduction. Highly recommended for intermediate and advanced courses.

I hoped to use this text to teach an introductory course in biomechanics to engineers. It seems that the majority of the material is discussing general mechanics (both solid and fluid) with complete derivations. Only at the end of each chapter is there a short section on how the subject relates to biology or medicine which is what a general engineering student may not have been exposed to. On the other hand, it goes into more detail than a biology student probably needs to know. In the end, I found the book *Physics of the Human Body (Biological and Medical Physics, Biomedical Engineering)* to be a much more well rounded text that seamlessly integrated physics and engineering with biology.

The book was in really good conditions, I got it on time and the price was great for the conditions of the book.

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