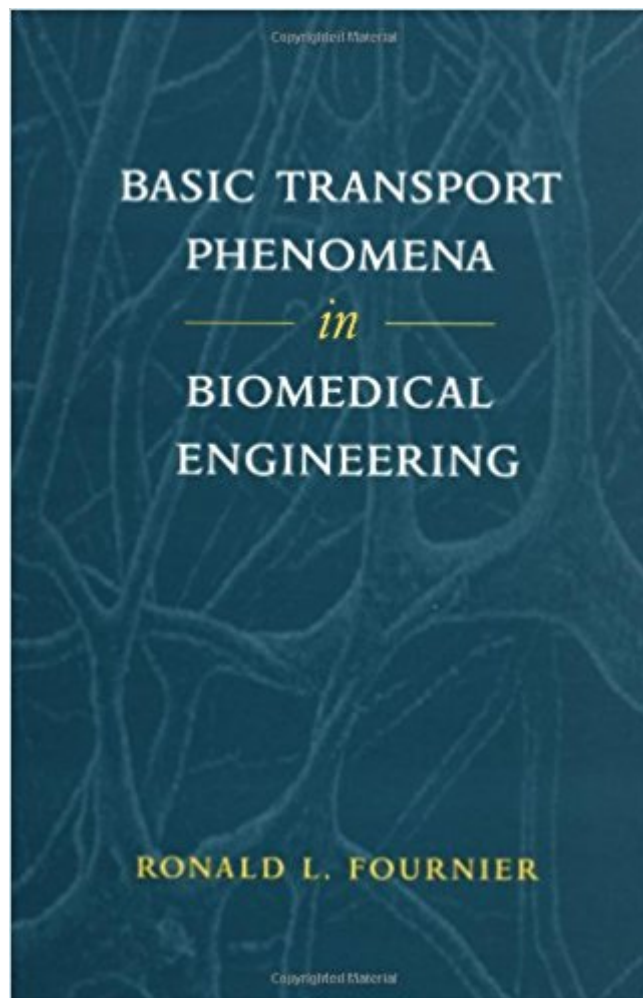




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Basic Transport Phenomena In Biomedical Engineering (Chemical Engineering)



Synopsis

This text combines the basic principles and theories of transport in biological systems with fundamental bioengineering. It contains real world applications in drug delivery systems, tissue engineering, and artificial organs. Considerable significance is placed on developing a quantitative understanding of the underlying physical, chemical, and biological phenomena. Therefore, many mathematical methods are developed using compartmental approaches. The book is replete with examples and problems.

Book Information

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Customer Reviews

Ronald L. Fournier is a professor in the Department of Bioengineering at The University of Toledo. He is also the founding chair of the Department of Bioengineering. During his twenty years at Toledo, he has taught a variety of chemical engineering and bioengineering subjects to include courses in biochemical engineering, biomedical engineering transport phenomena, biomedical engineering design, and artificial organs. His research interests and scholarly publications are in the areas of bioartificial organs, tissue engineering, novel bioreactors, and pharmacokinetics. Prof. Fournier is on the editorial review board of Technology and Healthcare in the International Journal of Health Care Engineering. He is a research journal reviewer for the following journals: AIChE Journal, Biotechnology and Bioengineering, Biomaterials, Cell Transplantation, Tissue Engineering, Industrial & Engineering Chemistry, and Enzyme & Microbial Technology. Prof. Fournier is a

member of the American Institute of Chemical Engineers, American Diabetes Association, Juvenile Diabetes Foundation International, American Association for the Advancement of Science, American Chemical Society, Cell Transplantation Society, Biomedical Engineering Society, American Society of Engineering Education, and is a Fellow of the American Institute of Medical & Biological Engineering. --This text refers to an out of print or unavailable edition of this title.

Had to have the book for a BME course. Came as described for less than the university book store.

When I rent it, the web page said it can be access with Windows 10 but it isn't.

What can I say, odds are you have to buy this whether you like it or not. In the off chance that you don't this one of the better Engineering text books. One huge thing is that it has a list of variables in the beginning of the book. This is NOT common in engineering text books and is a great help, especially if you are forgetful like me. It included examples that, while helpful, did not always explain their logical leaps or assumptions.

This is a great resource! Definitely recommend!

Let me make one thing clear: I am not reviewing the book's content. I'm just a student, and I have not yet read through the book. But, as an ebook, it could be better designed. The very first problem I noticed is that chapter 3 appeared to be missing. Clicking on chapter 3 in the table of contents did nothing. Going to the end of chapter 2 and clicking to the next page took me to chapter 4. Going to the beginning of chapter 4 and clicking back took me to the end of chapter 2. Or so it seemed. Upon closer inspection, it seems chapter 3 is combined with chapter 2: the link is broken. The other thing that would be useful would be to have section headings in the table of contents as well, and be able to navigate using those. An expandable menu for each chapter would do the job here. Finally there seems to be a problem with the "sync to furthest location read" button. No matter how far I've gone in the book (and I scrolled through it all to check for any missing pages when I thought chapter 3 was missing), clicking this button tells me "Already at furthest read location". Oh, one more thing. Bookmarking, then using the bookmark to get to the bookmarked page, takes me to the bottom of the page rather than the top. This is quite annoying as I want to start reading from the top of the page, not the bottom.

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Fast delivery....was exactly as advertised.

It was very readable, a major plus since my professor spoke little English. Overall, it was worth the cost of the book.

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