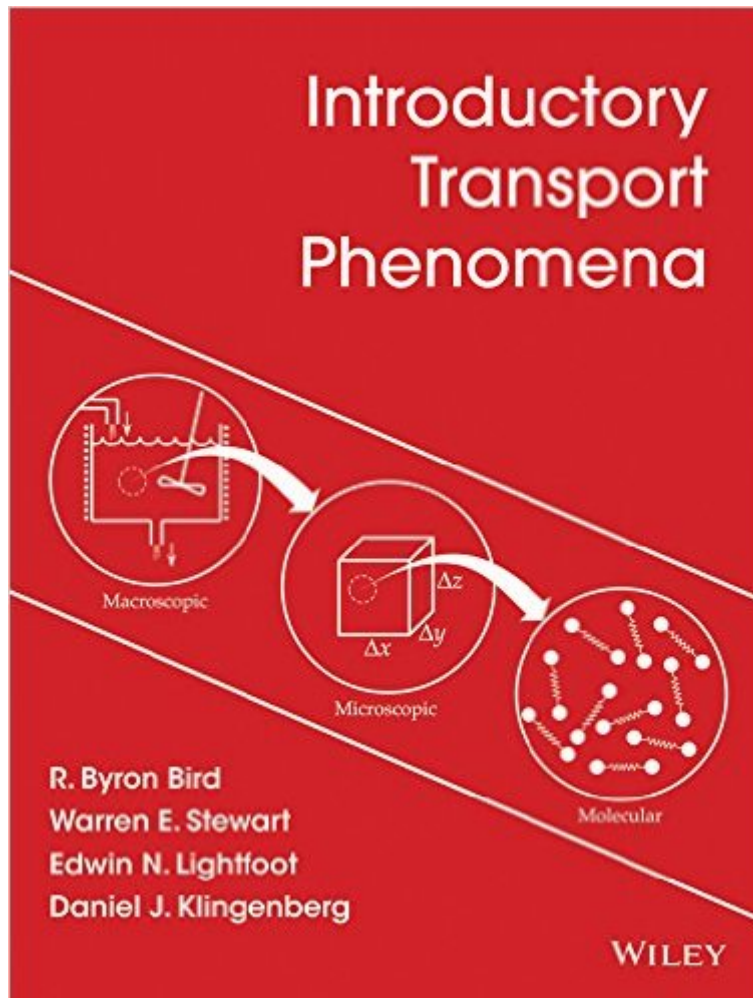


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# Introductory Transport Phenomena



## Synopsis

Introductory Transport Phenomena by R. Byron Bird, Warren E. Stewart, Edwin N. Lightfoot, and Daniel Klingenberg is a new introductory textbook based on the classic Bird, Stewart, Lightfoot text, Transport Phenomena. The authors' goal in writing this book reflects topics covered in an undergraduate course. Some of the rigorous topics suitable for the advanced students have been retained. The text covers topics such as: the transport of momentum; the transport of energy and the transport of chemical species. The organization of the material is similar to Bird/Stewart/Lightfoot, but presentation has been thoughtfully revised specifically for undergraduate students encountering these concepts for the first time. Devoting more space to mathematical derivations and providing fuller explanations of mathematical developments including a section of the appendix devoted to mathematical topics allows students to comprehend transport phenomena concepts at an undergraduate level.

## Book Information

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## Customer Reviews

I'm a third year undergraduate Biomedical Engineering student, and I used this book in a Fluid Flow & Heat Transfer class. Without a doubt it was crucial to my performance in that class. The methodology of each chapter is straightforward, the work is clearly outlined, and concepts are explained with relative simplicity. The most important part of understanding the concepts is understanding the math, which this book excels at. Equations are numbered, and given clear context and descriptions. Example problems tie-in with the homework problems, and provide a good

foundation for tackling the homework. I also recommend using the solutions manual, which I believe can be found online. At the time of this review, I am not aware of an undergraduate version of the solutions, although the problems in the graduate version are largely the same. Keep in mind that the solutions may be a little advanced for undergraduates, so don't rely on it too much if you can help it. In total, this is the best textbook I've ever used in college, no question. All professors should be using this for their classes.

As a junior chemical engineering student in top 10 ranked program, this book is a must

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