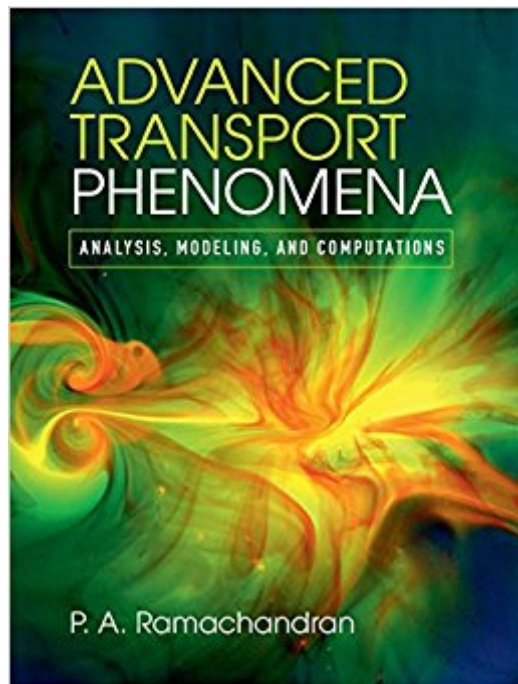




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Advanced Transport Phenomena: Analysis, Modeling, And Computations



Synopsis

An integrated, modern approach to transport phenomena for graduate students, featuring traditional and contemporary examples to demonstrate the diverse practical applications of the theory. Written in an easy to follow style, the basic principles of transport phenomena, and model building are recapped in Chapters 1 and 2 before progressing logically through more advanced topics including physicochemical principles behind transport models. Treatments of numerical, analytical, and computational solutions are presented side by side, often with sample code in MATLAB, to aid students' understanding and develop their confidence in using computational skills to solve real-world problems. Learning objectives and mathematical prerequisites at the beginning of chapters orient students to what is required in the chapter, and summaries and over 400 end-of-chapter problems help them retain the key points and check their understanding. Online supplementary material including solutions to problems for instructors, supplementary reading material, sample computer codes, and case studies complete the package.

Book Information

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Customer Reviews

This textbook is riddled with errors. On top of that, the book skips 90% of the steps required to solve a problem. The result is an unreadable and useless textbook.

Not a student-friendly book.

Very good book for a graduate students, covers advanced topics in transport nicely!

This book is intended for graduate level, or high-level undergraduate study. It is not friendly for self-study, but benefits from an instructor that is able to explain the many jumps in logic that the book excludes in reaching its solutions. The material presented is 5 stars in its thoroughness of treating all possible situations. Overall, though, the book is of poor quality because of the presentation. The book has many typos, which is common in a first edition; however many of the typos are of the unforgivable type: badly written equations, assuming a value for one variable that should have actually been another variable. My personal copy was also misprinted; the book jumps from page 402 to 452-453 before returning to 405 (who knows what happened to pages 403-404). While this book does an admirable job of moving the field forward from its dependence on Bird, Stewart, and Lightfoot, it should provide more support in deriving the solutions to the most complicated problems, and should be thoroughly re-copy-edited for all the typos that have led me and other fellow students to rely on other textbooks to corroborate the equations we see in this book.

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