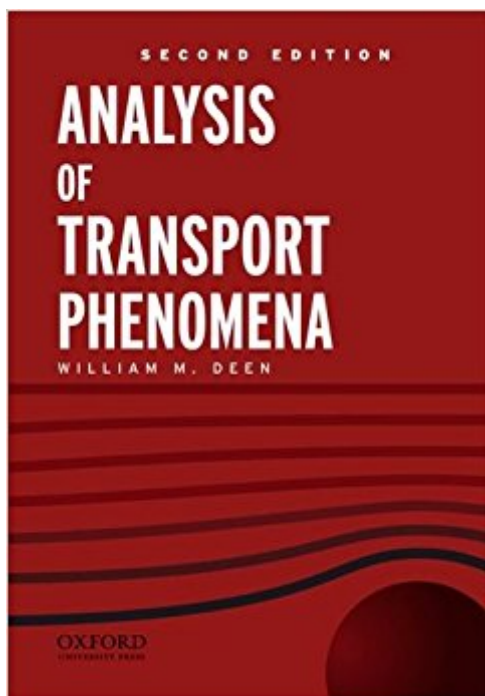


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Analysis Of Transport Phenomena (Topics In Chemical Engineering)



Synopsis

Analysis of Transport Phenomena, Second Edition, provides a unified treatment of momentum, heat, and mass transfer, emphasizing the concepts and analytical techniques that apply to these transport processes. The second edition has been revised to reinforce the progression from simple to complex topics and to better introduce the applied mathematics that is needed both to understand classical results and to model novel systems. A common set of formulation, simplification, and solution methods is applied first to heat or mass transfer in stationary media and then to fluid mechanics, convective heat or mass transfer, and systems involving various kinds of coupled fluxes. FEATURES: * Explains classical methods and results, preparing students for engineering practice and more advanced study or research * Covers everything from heat and mass transfer in stationary media to fluid mechanics, free convection, and turbulence * Improved organization, including the establishment of a more integrative approach * Emphasizes concepts and analytical techniques that apply to all transport processes * Mathematical techniques are introduced more gradually to provide students with a better foundation for more complicated topics discussed in later chapters

Book Information

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Customer Reviews

"Deen is the gold standard for teaching graduate-level transport phenomena to chemical engineers."

-Yossef Elabd, Drexel University

Professor William M. Deen is the Carbon P. Dubbs Professor of Chemical Engineering at the Massachusetts Institute of Technology.

The book is very comprehensive and covers all mathematical methods to solves the transport problem. It also gives a clear explanation on the method of Finite Fourier Transform. Overall, this is the best book for graduate study.

Great transport textbook I would highly recommend to Chemical Engineers (especially at the graduate level), or anyone else highly interested in transport and fluids. The language is concise, but the explanations are sufficient to get to complex topics with some heavy thinking on your own accord. Definitely a textbook I will keep in my library.

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Extremely useful book for graduate students.

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