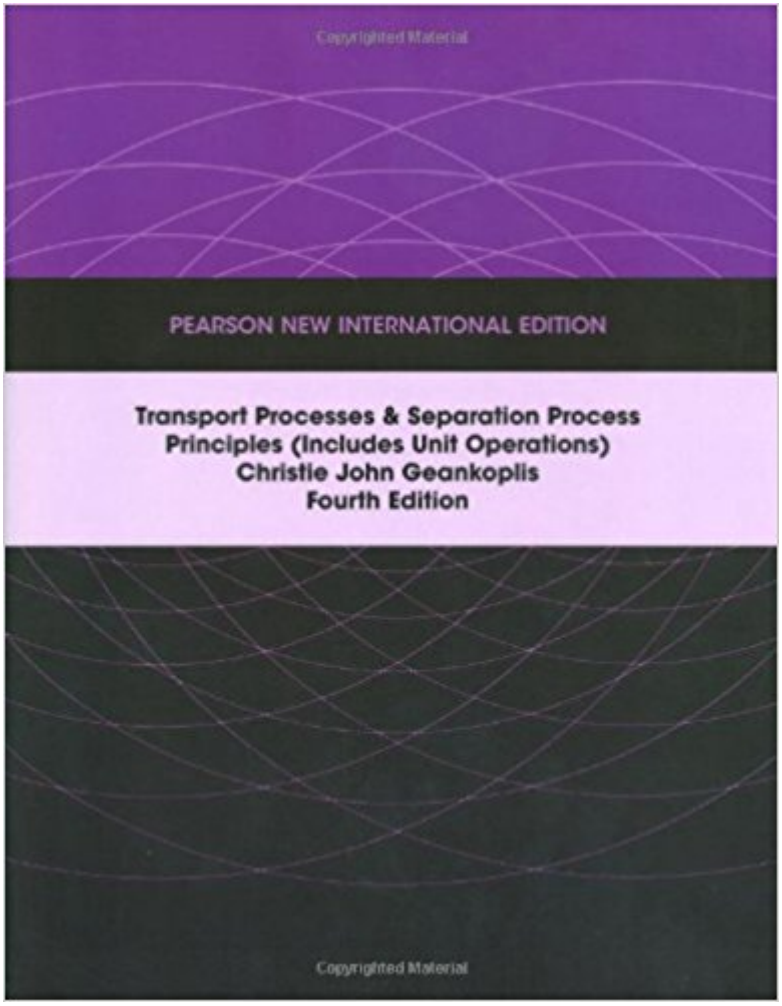
Transport Processes And Separation Process Principles (Includes Unit Operations): Pearson New International Edition



Synopsis

In Transport Processes and Separation Process Principles, Fourth Edition, author Christie John Geankoplis offers a unified and fully updated treatment of momentum transfer, heat transfer, mass transfer, and separation processes. Enhancements to this edition include a more thorough coverage of transport processes, plus new or expanded coverage of separation process applications, fluidized beds, non-Newtonian fluids, membrane separation processes and gas-membrane theory, and much more. The book contains 240+ example problems and 550+ homework problems. --This text refers to an alternate Paperback edition.

Book Information

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Customer Reviews

The comprehensive, unified, up-to-date guide to transport and separation processes Today, chemical engineering professionals need a thorough understanding of momentum, heat, and mass transfer processes, as well as separation processes. Transport Processes and Separation Process Principles, Fourth Edition offers a unified and up-to-date treatment of all these topics. Thoroughly updated to reflect the field's latest methods and applications, it covers both fundamental principles and practical applications. Part 1 covers the essential principles underlying transport processes: momentum transfer; steady-state and unsteady-state heat transfer; and mass transfer, including both unsteady-state and convective mass transfer. Part 2 covers key separation processes, including evaporation, drying, humidification, absorption, distillation, adsorption, ion exchange, extraction, leaching, crystallization, dialysis, gas membrane separation, reverse osmosis, filtration, ultrafiltration, microfiltration, settling, centrifugal separation, and more. This edition's extensive updates and enhancements include: A more thorough coverage of momentum, heat, and mass

transport processes Detailed new coverage of separation process applications Greatly expanded coverage of momentum transfer, including fluidized beds and non-Newtonian fluids More detailed discussions of mass transfer, absorption, distillation, liquid-liquid extraction, and crystallization Extensive new coverage of membrane separation processes and gas-membrane theory Transport Processes and Separation Process Principles, Fourth Edition also features more than 240 example problems and over 550 homework problems reflecting the field's current methods and applications. --This text refers to an alternate Paperback edition.

CHRISTIE JOHN GEANKOPLIS is a Professor of Chemical Engineering and Materials Science at the University of Minnesota. His current research interests involve transport processes, biochemical reactor engineering, mass transfer in liquid solutions, and diffusion and/or reaction in porous solids. He holds a Ph.D. in Chemical Engineering from the University of Pennsylvania. --This text refers to an alternate Paperback edition.

First and foremost, if you're looking at this review right now, I'm sorry. Any fluid dynamics class is challenging and do not get discouraged. Engineering is difficult and be ready, this class is no exception to this difficulty. Just keep your head down, (preferably looking at a textbook), and you'll be just fine.This book however is pretty good. It contains step by step examples of almost all the topics it covers. I referred to it many times whenever my professor would not be entirely clear with a concept he was teaching. Additionally, for my course all the work was out of this textbook. I usually was able to follow the step by step walk through that the book provides to arrive at the right answers for homework. Good luck!

If you did well in your Intro to Fluids/Transport classes, this book will likely agree with you. Its overall ethos is a simplified one, as it moves on from theory to application. Still, it provides a decent (although simplified) review of the main tools you need to tackle problems in the book. Pleasantly surprised at how much I enjoy this upper division ChemE book.

The chapters are extremely long in this textbook. It does a good job cover all of the material in an effective way, but I just wish that they could have maybe organized it differently so that it doesn't take you all day to get through one chapter.

most likely my most written in and torn up book. Even though it is for a class, it is by far the most

easily referenced book I have had since starting upper division. I like how the variables and what they are are normally laid out right after the equation is stated.

Fantastic book that makes the subject easy to understand!

Item was as described and codition was accurate

Great price, speedy shipping, exactly what I needed for my engineering class

Appropriate textbook for current studies. Arrived on time and price was acceptable.