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Unit Operations In Chemical Engineering



Synopsis

A revised edition of a text on unit operations of chemical engineering, this work contains updated and new material reflecting in part the broadening of the chemical engineering profession into new areas such as food processing, electronics and biochemical applications. As in previous editions, separate chapters are devoted to each of the four principle unit operations - fluid mechanics, heat transfer, equilibrium stages and mass transfer, and operations involving particulate solids - and includes coverage of adsorption, absorption and membrane separation. There is also detailed treatment of solids-handling operations and solid-liquid separations. In this fifth edition, SI units are given greater emphasis and some two-third of the end-of-chapter problems have been revised. In addition, there is new material on membrane separations, flow measurement, dispersion operations, supercritical extraction, pressure-swing adsorption and sedimentation. Also available is a solutions manual (0-07-044845-0).

Book Information

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Customer Reviews

This is the longest running textbook in the discipline. The book's origin goes back to 1931 (Badger and McCabe, "Elements of Chemical Engineering"). In 1956, Badger and McCabe went separate ways and McCabe wrote the first edition of Unit Operations of Chemical Engineering with J. C. Smith. Peter Harriott became a co-author for the 1985 edition. The continued use of the book in some universities just show the usefulness of the Unit Operations concept in chemical engineering

education.

I work in the chemical operations sector. I will highly recommend this book for 3rd or 4th year future chemical engineers. It contains viable information on many units that they will just have to know about. However, I will not recommend it for working operation engineers. It is too general for us, it doesn't problem shoot units such as pumps and compressors. I don't think that I have much use for this book, specially that I own the Perry's Handbook.

Warning: This is not a textbook. Basically, they took out some of the stuff from Perry's and rewrote it more carefully and filled in some of the details. In general, this book is hard to read, missing important things, and burdened with unimportant things. It really does no justice to the quality and quantity of amazing insight inside the head of Peter Harriott (from whom I've taken classes). I can't deny that it makes an awesome reference book, but woe to any class that depends on this book.

I'm a student at the University of Florida, where this text has been required for Unit Operations classes (fluids and separations). Frankly I think a better treatment of transport process should be a prerequisite for using this book, as such fundamental theory is insufficiently developed in this text. Even as a pure unit ops. text, I feel it is inferior to several other works, including Perry's Handbook.

This book is userfriendly. I bought this in 1982. Still, I use this book when I need any information about unit operations of chemical engineering (fluid flow, heat transfer, mass transfer). Sometimes, I use this book like dictionary. I mean that I carry this book where I go

it is the best books i have ever read in my semester of chemical engineering. the topic i like the most, is transportation of fluids. this book is recommended by my professor. the matter of turbulent flow and laminar flow is just fantastic. thank you!

I went to Cornell where Prof. Harriot teaches. This book is a must for reference. There are points where it is a little difficult but it is really a overall good book.

If you are a Chemical Engineer and couldn't afford the Perry's, this book is a must!!

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Unit Operations of Chemical Engineering (7th edition) (McGraw Hill Chemical Engineering Series)

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