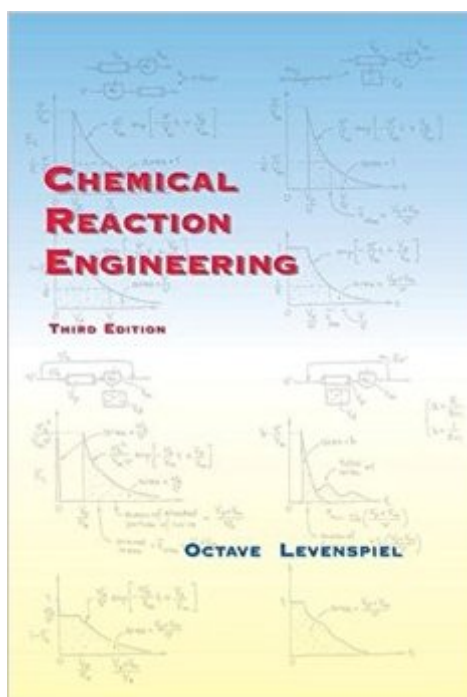


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Chemical Reaction Engineering, 3rd Edition



Synopsis

Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale. Its goal is the successful design and operation of chemical reactors. This text emphasizes qualitative arguments, simple design methods, graphical procedures, and frequent comparison of capabilities of the major reactor types. Simple ideas are treated first, and are then extended to the more complex.

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Customer Reviews

I used this book as a textbook in my undergraduate. In an undergraduate study, it is necessary to have new concepts explained to you in a unified manner so that one sees where all the chemical engineering subjects are heading to. Chemical reaction engineering (CRE) basically deals with energy and material balance applied to chemical reactors to achieve a given purpose. The book tells you all the fundamentals about the chemical reaction engineering, the underlying principles but fails to draw this message straight that CRE is nothing but application of energy and material balance. And at undergraduate level, I could not draw this inference on my own and learned it in the graduate class when I took the advanced level course. The book also does not deal with the modern tools of solving reactor design problems with computers. We used Fogler's text book for first few classes in Graduate school. I would recommend this book which could be used as an undergraduate as well as graduate text/reference book. If you need to go to the earlier work and want to pursue research in this field, then Levenspiel is good as it has some original work

references (I believe this is an old book on CRE). Once you have the feel for the subject than the use of this book is undisputed. But if you are using this book to study CRE first time then I would recommend you use some good text book. Additional comments 6 years later: I am currently using this books to solve some real industry problems and it has become clear to me how good this book is. Though I stick to my earlier comments which were written when I was fresh in to my graduate school for two reasons: how I felt about this book in my undergrad class and how much I learned from Fogler in Graduate level class. But Levenspiel does good justice to all the concepts in chemical reaction engineering and would definitely recommend it as a reference book. It provides many ways to analyze a chemical data and interpret it to determine the kinetics.

As a student, I found the material difficult and challenging. Later, as a professional, I referred to this book often when faced with tough reactor calculations and difficult kinetic question. Dr. Levenspiel explains everything very well in his examples; the problem sets were nightmarish, but, then, our professor was awful. All in all, the book is highly useful to student and professional alike. I wish that I had had a good instructor, I would have developed a better appreciation the material as a student. Definitely a book for any chemical engineer's library.

only the 2nd week of class but this appears to be the exact same as the university's book (at a fraction of the price). Haven't had a chance to check if the problems are the same as the ones for class, but I hope to update soon.

This was the first "Chemical Reaction Engineering" textbook that help establish the discipline as a core undergraduate subject. It ranks up there with Walker, Lewis and McAdams' "Principles of Chemical Engineering" (1923), Hougen and Watson's "Chemical Process Principles" (1943-1947), Bird, Stewart and Lightfoot's "Transport Phenomena" (1960), and King's "Separation Processes" (1971). Levenspiel's statement in the book's Preface proved to be prophetic: "When it is widely recognized that the principles of chemical reaction engineering can be presented in understandable fashion at the undergraduate level, this subject will take its proper place in the chemical engineering curriculum, probably following physical chemistry and complementing unit operations under whatever name the latter may be taught."

CRE is not a bad book. The author does a good job of explaining reactor design fundamentals, from simple kinetic models to complex reactor systems involving heat/material transfer or multiple

reaction contents. He lays the groundwork well early on by using simple, clear examples. There are numerous typos (mostly in the text, though, not the problems. The text itself is in large and legible type. In addition, the book is not overcrowded-like a lot of life science books-with meaningless pictures, text, history, etc (but it might take the boredom meter to a new level for some readers). Although not a big deal, Levenspiel uses some language that makes you kinda wonder what planet he came from. Also, the author puts all the variable nomenclature at the beginning of the book, which is really annoying because you have to flip back and forth until you memorize each character variable. Other than that, it should be adequate to get you through the course w/o a great deal of trouble.

One of the best books on reaction engineering out there. This book has been translated to more languages than any other engineering text - that stands for itself. Easily conveys complex topics, relating to real world situations. I have used this book during my undergraduate course work and a great reference as a professional.

This is a great text on chemical reaction kinetics and I wish I would have had it before I took my PE exam. I am still waiting on results, I am confident I passed but struggled with 4-5 kinetics questions that this text would have been very helpful on. Even though I don't do reaction kinetics in my day to day job it's a great technical reference.

We didn't use this book at the University of Texas. Even so, it was worth every minute I spent reading it instead of our textbook. It's just that much better than anything else in the curriculum.

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