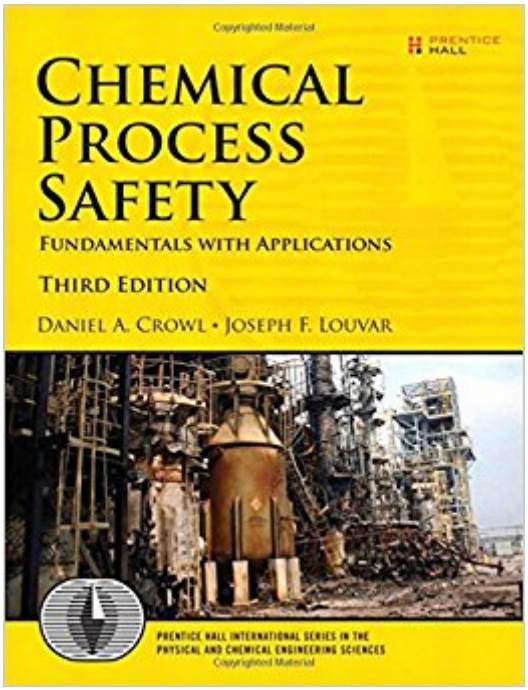
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Chemical Process Safety: Fundamentals With Applications (3rd Edition) (Prentice Hall International Series In The Physical And Chemical Engineering Sciences)



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Synopsis

The Leading Guide To Process Safety Now Extensively Updated For TodayÃ¢â ¬â„¢s Processes And Systems Ã Â As chemical processes have grown more complex, so have the safety systems required to prevent accidents. Chemical Process Safety, Third Edition, offers students and practitioners a more fundamental understanding of safety and the application required to safely design and manage todayÃ¢â ¬â„¢s sophisticated processes. The third edition continues the definitive standard of the previous editions. The content has been extensively updated to todayÃ¢â ¬â„¢s techniques and procedures, and two new chapters have been added. A new chapter on chemical reactivity provides the information necessary to identify, characterize, control, and manage reactive chemical hazards. A new chapter on safety procedures and designs includes new content on safely management, and specific procedures including hot work permits, lock-tag-try, and vessel entry. Ã Â Subjects Include Inherently safer design Toxicology and industrial hygiene Toxic release and dispersion models Fires and explosions, and how to prevent them Reliefs and relief sizing Hazard identification Risk assessment Safe designs and procedures Case histories Ã Â Chemical Process Safety, Third Edition, is an ideal reference for professionals. It can be used for both graduate and undergraduate instruction. This edition contains more than 480 end-of-chapter problems. A solutions manual is available for instructors.

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Customer Reviews

Daniel A. Crowl is Herbert H. Dow Professor for Chemical Process Safety at Michigan Tech. He

serves on the AIChE Center for Chemical Process Safety (CCPS) Safety and Chemical Engineering Education (SACHE) Committee, and is author/editor of several AIChE books on process safety. His awards include AIChEÃ¢â ¬â„¢s Bill Doyle Award; the ACS Chemical Health and Safety Award; the Walton/Miller award from AIChEÃ¢â ¬â„¢s Safety and Health Division; and the AIChE BoardÃ¢â ¬â„¢s Gary Leach Award. He is a Fellow of AIChE, ACS Safety and Health Division , and CCPS. Ã Â Joseph F. Louvar is Research Professor at Wayne State UniversityÃ¢â ¬â„¢s College of Engineering, where he teaches chemical process safety, risk assessment, and process design. He was recently the CCPS staff consultant for the Undergraduate Education Committee, commonly known as the Safety and Chemical Engineering Education Committee (AIChEÃ¢â ¬â„¢s SACHE) and has previously chaired this committee for over ten years. His books include Health and Environmental Risk Analysis: Fundamentals with Applications (Prentice Hall, 1997).

I really liked the book (as much as one can like a textbook anyway). The examples were easy to follow and the layout was one which is conducive to learning. The book is really thick but surprisingly light.

Great book if you are looking to learning practical application of process safety. The book has pretty much no derivations and cuts straight to the chase. All equations are summarized well and the use of each equation is well noted.

Cheaper version than the non-international; just watch out for problem number differences.

The book was brand new and looked great. The chapters are all identical to the US edition, and so far all of the same problems are in the book. However, the problems are out of order from the US edition which can lead to confusing HW assignments, but it’s pretty easy to figure out how they switched. Overall a great deal on this book

very dry content, but a useful book.

I bought this book for the class. I liked the contents a lot. It covers broad variety of topics all useful for a chemical engineer. Lots of examples. One thing I didn’t like about the book, is that it has some errors in the formulas. I already used couple of things there for real technical tasks. (I am still a student)

I know the authors and they are commited to teaching undergraduate chemical engineers chemical process safety. Great job!

Is my text book in the course I teach

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