



Chemical Process Safety: Fundamentals with Applications (3rd Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences)

By Daniel A. Crowl, Joseph F. Louvar

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**The Leading Guide To Process Safety Now Extensively Updated For
Today's Processes And Systems**

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 today's sophisticated processes.

The third edition continues the definitive standard of the previous editions. The content has been extensively updated to today'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 safety management, and specific procedures including hot work permits, lock-tag-try, and vessel entry.

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

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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Bibliography

- Rank: #30892 in Books
- Published on: 2011-05-30

- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x 1.80" w x 7.30" l, 2.90 pounds
- Binding: Hardcover
- 720 pages

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Editorial Review

About the Author

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 AIChE's Bill Doyle Award; the ACS Chemical Health and Safety Award; the Walton/Miller award from AIChE's Safety and Health Division; and the AIChE Board's Gary Leach Award. He is a Fellow of AIChE, ACS Safety and Health Division, and CCPS.

Joseph F. Louvar is Research Professor at Wayne State University'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 (AIChE'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).

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