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Chemical Process Safety: Fundamentals with Applications (Third Edition)

By Daniel A. Crowl, Joseph F. Louvar

Pearson Education, 2014. Softcover. Book Condition: New. 3rd edition. As chemical processes have grown more complex, so have the safety systems required to prevent accidents. Chemical Process Safety, Third Edition, offers students 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 safely management, and specific procedures including hot work permits, lock-tag-try, and vessel entry. Contents: Chapter 1: Introduction Chapter 2: Toxicology Chapter 3: Industrial Hygiene Chapter 4: Source Models Chapter 5: Toxic Release and Dispersion Models Chapter 6: Fires and Explosions Chapter 7: Concepts to Prevent Fires and Explosions Chapter 8: Chemical Reactivity Chapter 9: Introduction to Reliefs Chapter 10: Relief Sizing Chapter 11: Hazards Identification Chapter 12: Risk Assessment Chapter 13: Safety Procedures and Designs Chapter 14: Case Histories Appendix A: Unit Conversion Constants Appendix B: Flammability Data for Selected...


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