
Description: All the latest practical tools for eliminating or reducing the risks of chemical processes

Learn to take full advantage of inherently safer design, a tested and proven holistic approach to developing, manufacturing, and using chemicals as safely as possible. With this Second Edition, you'll learn the latest strategies to eliminate or significantly reduce the hazards of chemical processes rather than accept those hazards as a given. Specifically, the book shows you how to manage important tasks such as:

- Substituting less harmful chemicals at the development stage
- Moderating the hazards of chemicals and manufacturing processes
- Using safer processing methods for manufacturing
- Simplifying plants to make them more user friendly

This Second Edition features the latest developments and practical tools that inherently safer design offers, including:

- Methods for developing and implementing inherently safer processes and plants
- Techniques for measuring and evaluating inherent safety
- Real-world examples illustrating the benefits of inherently safer processes
- Trade-offs and conflicts among the hazards considered in identifying inherently safer options
- The Role of inherent safety in process safety management programs

In addition to learning effective approaches for evaluating and implementing inherent safety, you'll also learn inherent safety's limits. Filled with all the latest information and tactics, Inherently Safer Chemical Processes allows you to fully leverage and reap the benefits of this proven and increasingly popular technique for managing the risk associated with chemical processing.

Center for Chemical Process Safety (CCPS) was established by the AIChE in 1985 to study and develop engineering and management practices that help prevent or mitigate catastrophic process safety accidents. CCPS publications provide the latest guidelines for the production, storage, and handling of flammable, explosive, and reactive materials. With the help of the CCPS, companies can operate facilities safely and measure their own practices against today's most accepted industry practices.

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