



# Guidelines for Vapor Cloud Explosion, Pressure Vessel Burst, BLEVE and Flash Fire Hazards

By CCPS (Center for Chemical Process Safety)

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This guide provides an overview of methods for estimating the characteristics of vapor cloud explosions, flash fires, and boiling-liquid-expanding-vapor explosions (BLEVEs) for practicing engineers. It has been updated to include advanced modeling technology, especially with respect to vapor cloud modeling and the use of computational fluid dynamics. The text also reviews past experimental and theoretical research and methods to estimate consequences. Heavily illustrated with photos, charts, tables, and diagrams, this manual is an essential tool for safety, insurance, regulatory, and engineering students and professionals.

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#### Review

"Heavily illustrated with photos, charts, tables, and diagrams, this manual is an essential tool for safety, insurance, regulatory, and engineering students and professionals." (Forbes.com, 27 October 2010)

#### About the Author

Since 1985, the **Center for Chemical Process Safety (CCPS)** has been the world leader in developing and disseminating information on process safety management and technology. CCPS, an industry technology alliance of the American Institute of Chemical Engineers (AIChE), has published over 80 books in its process safety guidelines and process safety concepts series, and over 100 training modules through its *Safety in Chemical Engineering Education (SACHE)* series.

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