



Managing Risk and Reliability of Process Plants

By Mark Tweeddale

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There is much specialist material written about different elements of managing risks of hazardous industries, such as hazard identification, risk analysis, and risk management. **Managing Risk and Reliability of Process Plants** provides a systematic and integrated coverage of all these elements in sufficient detail for the reader to be able to pursue more detailed study of particular elements or topics from a good appreciation of the whole field. The reader would use this book to keep up to date with new developments and, if they are new to the job, to learn more about the subject. The text includes a chapter of case studies and worked examples - including examples of risk assessments, which is consistent with the approach taken throughout the book of applying real-life scenarios and approaches.

- * Provides a source for reasonable understanding across the whole field of risk management and risk assessment.

- * Focuses on the how, what, and why of risk management using a consistent and well organized writing style interspersed with case studies, examples, exercises, as well as end matter.

- * Fills a need in the area of risk assessment and risk management in the process and chemical engineering industry as an essential multi-audience reference/resource tool, useful to managers and students.

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Editorial Review

Review

I believe that this book will be useful to chemical engineers who have to assess the safety and reliability of process plants, and reduce and manage their risks. - Journal of Loss Prevention in the Process Industries

About the Author

Dr Mark Tweeddale is a consultant specializing in management of technical and project risks, and facilitation and peer reviews of risk studies. As former ANSTO Professor of Risk Engineering and Executive Director of the University of Sydney's Centre of Advanced Risk and Reliability Engineering, Mark has presented over 100 invited talks and papers to professional societies, government seminars, industrial conferences and universities in Australia and overseas. In his 25 years with ICI Australia Ltd, he has held a variety of production, engineering and commercial positions including Corporate Project Safety Manager and Technical Manager of the ICI Botany Chemical Factory.

A Fellow of the Australian Academy of Technological Sciences and Engineering, Mark was a member of the Research Standing Committee of the National Occupational Health and Safety Commission and participated in the Worksafe Australia Expert Working Group which prepared model regulations for Control of Major Hazards in Industry. He was a foundation member of the National Community Advisory Panel of the 'Responsible Care' program of the Australian Chemical Industry. In addition, he has chaired several committees of the Institution of Engineers, Australia, including the Chemical Engineering Branch of Sydney Division, the National Committee on Risk Engineering, and the Institution's Risk Engineering Society.

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