



High Integrity Systems and Safety Management in Hazardous Industries

By J.R Thomson

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This book is about the engineering management of hazardous industries, such as oil and gas production, hydrocarbon refining, nuclear power and the manufacture of chemicals and pharmaceuticals. Its scope includes an overview of design standards and processes for high integrity systems, safety management processes as applied to hazardous industries and details best practices in design, operations, maintenance and regulation.

Selected case studies are used to show how the complex multidisciplinary enterprises to design and operate hazardous plant can sometimes fail. This includes the subtlety and fragility of the robust safety culture that is required.

It is aimed at professional engineers who design, build and operate these hazardous plants. This book is also written for business schools and university engineering departments where engineering management is studied.

- An overview of design standards and processes for high integrity systems
- An overview of safety management processes as applied to hazardous industries
- Best practices in design, operations, maintenance and regulation

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Editorial Review

Review

"...easy to read, has plenty of case studies to illustrate the issues being discussed and includes personal experiences.

It is this personal element in the book that makes it so accessible. Rating: 4 Stars" --**The Chemical Engineer**

About the Author

JR (Jim) Thomson, BSc(Eng), PhD, CEng, FIET, FIMechE, FNucl is an independent consultant, www.safetyinengineering.com, specializing in high integrity systems and safety management. He has worked in plant operations management, engineering management and safety management, and has previously held executive director posts in two international safety consultancies. He has been chair of two international conferences on high-integrity safety systems, and was awarded the Nuclear Institute's Pinkerton Prize 2013

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