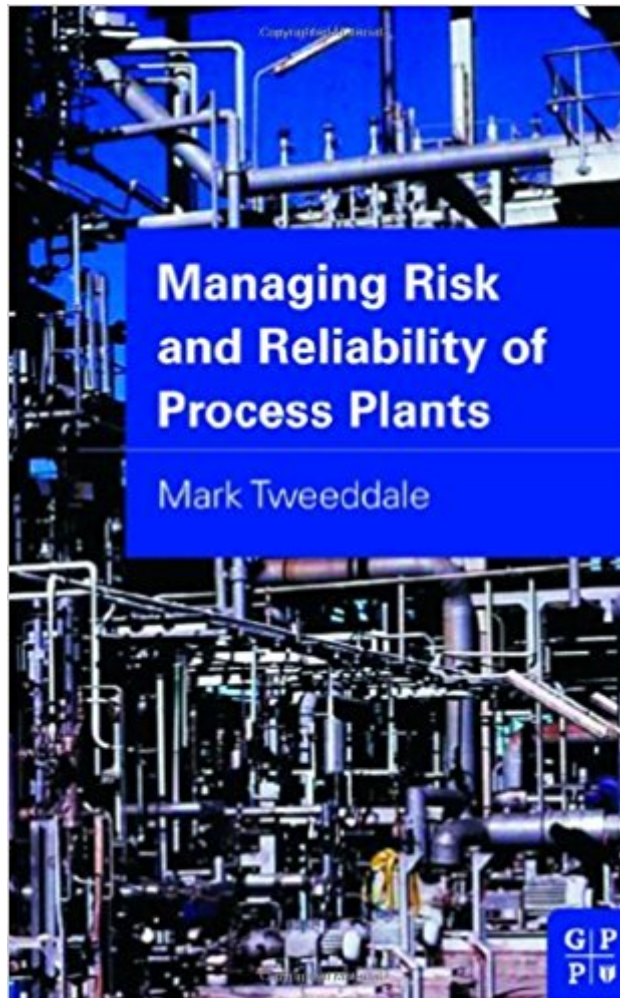




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Managing Risk And Reliability Of Process Plants



Synopsis

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.

Book Information

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Customer Reviews

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*

This book 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.

I have 20 years experience in this field and this is a book I keep coming back to. It is one of the first that I buy for new people to the field. It is one that I bring along when I go on consulting trips. I was pleased to buy the electronic copy recently. The book provides a good overview of the theory and some practical worked examples without those annoying "skipped steps" requiring a lot of work to find out how to manipulate the data. I recently used the toxic release and Probit section as an example. Another thing I like is this book can be read from cover to cover. So many other books are a good reference but can't be used for training as they are too dense, long or disjointed. This book is not a deep theoretical treatise. There are others that are better for that, such as those from the Centre for Chemical Process Safety. What this book is a good introduction and demonstration of how the principles are applied.

In the last 15 years I had the privilege to meet Dr. Tweeddale few times in 3 continents. Some of the meetings were while listening to his presentations in conferences, some were as participant in workshops he ran and one or two included participation in national safety management programs where his ideas showed a clear way how to navigate these programs towards effective targets. All these meetings were illuminated by the vast knowledge, the deep rooted experience in process industry, the bright style of transferring all these subjects to his audience or students. It was just natural that Dr. Tweeddale who is human and nature lover will connect between all these areas and do everything to reduce risks, to manage risks and upgrade safety management in the industry. Armed with all this information I developed long expectations to have one day a book written by Dr. Tweeddale and now I feel I won even more than I expected. I look at this new book from 3 points of view. The first is from the position of Loss Prevention Manager of hazardous process complex. Almost all the chapters take me through the problems I anticipate in the systems and direct me how to proact and prevent most of them systematically and logic. By no doubt this is a book that can be given to my colleagues to study before a project of risk management and to upgrade the efficiency and reliability of the project process and the implementation of its conclusions. The 2nd. point of view belongs to my experience as a lecturer for risk management in university. The book shows a clear way how to lead such a course and enable the students to have a good reference with a lot of indications of other references accompanied by many examples and

learning value accidents descriptions. The third point of view is based on management systems. Many will appreciate that risk management is the core value of safety management systems (including modules like audit, training, accident investigation and near miss, management of change etc.) and high safety records can be achieved not only by risk management implementation but by high achievements in all the safety management system. The author didn't overlook the problem and included mainly in chapters 10,11,12 many points related to the complete system of safety management by thus enabling those who haven't yet dived into the safety management topics to get good feeling of it. Concluding my writing I can say that the book is very good, interesting and readable and I am proud to say that I completed my reading with interest on my last vacation few days ago. The book left me now with new expectations which are - new book by Dr. Mark Tweeddale this time on the issues of : Safety management, safety culture and safety policy.

This is a good resource book. It provides a holistic system, with the essential elements and logical links between the elements, for management of hazards and risks of process plants. Chapter 13 and 14 are extremely useful especially, when the basic concepts, methods and techniques presented in previous chapters are explained. Chapter 13 provides a 'short cut', in terms of time saving, to the exposure of typical causes of and lesion learnt from thoughtfully selected incidents. Chapter 14 provides a number of case studies and work examples to further demonstrate how hazards can be identified, assessed (qualitatively or quantitatively) and mitigated, using the methods and techniques described in the book. This book will not only be useful to the professionals who have already worked in management of hazards and risks but also to those who wish to start a career in this area. The book was written in a simple and easy-to-understand language, and is a very useful and practicable.

Looking for an outstanding book on Process Safety? Don't look any further. Dr. Mark Tweeddale has written a practical and resource rich book on process safety that will knock your socks off. Are you looking for that plume release explosion formula? It's in there! Are you looking for risk calculations and methods? It is all compiled into this one text. Do you want to understand how safety climate sets the safety culture for an organization and how to improve that? What active steps should management take to improve safety? This book has that information also. If you're new to the field of safety or you're an professional with years of experience, this text is for you. If you're a student, grab this book! You'll want to keep it right on your shelf for quick reference!

The book is an important contribution to the risk management of process facilities. It will be valuable to those seeking an accessible introduction to the field and also to practitioners seeking a comprehensive and thoughtful reference. The book's strength lies in the integration of descriptive material and quantitative techniques, supported by lessons learned and case studies. The balanced explanations of theory combined with worked numerical examples and practical guidance on applying risk management methods will assist process plant professionals to better manage risk. The breadth of detailed coverage is impressive. It is rare that a single work can provide good guidance on modelling dust explosions and provide valuable lessons on auditing process facilities.

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