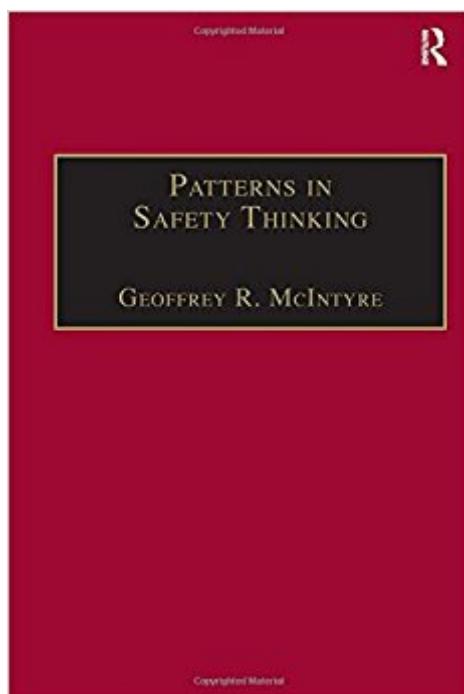


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# Patterns In Safety Thinking: A Literature Guide To Air Transportation Safety



## Synopsis

Safety is more than the absence of accidents. Safety has the goal of transforming the levels of risk that are inherent in all human activity, while its interdisciplinary nature extends its influence far into most corporate management and government regulatory actions. Yet few engineers have attended a safety course, conference or even a lecture in the area, suggesting that those responsible for the safe construction and operation of complex high-risk socio-technical systems are inadequately prepared. This book is designed to meet the expressed needs of aviation safety management trainees for a practical and concise education supplement to the safety literature. Written in a highly readable and accessible style, its features include: 

- detailed analysis of the forward-looking System Safety approach, with its focus on accident prevention;
- classification of transportation safety literature into distinct schools of thought (Tort Law, Reliability Engineering, System Safety Engineering);
- real world, practical, illustrations of the theory;
- the history, theory and practice of safety management;
- inter-disciplinary thinking about safety.

 The flying public is faced with a bewildering array of aviation safety data from a diverse and ever increasing number of sources. This book is an essential guide to the available information, and a major contribution to the international public debate on aviation safety.

## Book Information

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## Customer Reviews

'Aerospace engineers, air safety managers and anyone trying to grasp the fundamentals and scope

of modern air safety are likely to find Patterns in Safety Thinking a very useful introduction and guide to the subject...an excellent road map of this extremely complex subject.' Aviation Now 'Readers will be delighted by a complete overview of system safety development ...McIntyre's application of system safety thinking to the air transportation world is most effective in the comprehensive scenarios he presents.' Journal of System Safety '...a comprehensive but compact guide to safety philosophies which may provoke thought among a wider audience than just the aviation industry.' Industrial Safety Management, October 2003 'The text is copiously referenced throughout, entertaining and shocking by turns, to get its seriously urgent message across.' Occupational Safety and Health Journal (ROSPA) Feb 04

Geoffrey R. McIntyre is currently with the Federal Aviation Administration\* (FAA) in the Office of the Assistant Administrator for System Safety, System Safety Engineering and Analysis Division. Prior to that he worked in research and development with various agencies of the US Department of Transportation, as a part-time lecturer in Public Administration at the George Washington University, the University of Maryland, and as a guest lecturer at Embry-Riddle Aeronautical University. He has a PhD in Public Administration/Transportation from New York University. \*The views expressed in this book are entirely those of the author and do not necessarily represent the views of the FAA\*\*\*

Geoff McIntyre faced the classic problem in summarization - make it too long and no one will read it, make it too short and it will not do justice to the subject. In keeping his essay to a easily readable 131 pages, but with enough depth to give useful insights, McIntyre has resolved his writing conundrum nicely. Looking at the subject through the triple lens of Tort Law, Reliability and System Safety is helpful, too. He cites a good number of references, including some I was not familiar with; as a researcher, this alone was worth the price of the book. Any criticisms that I might have about unevenness are minor in the face of the breadth of the research that McIntyre lays on the table for the reader. Indeed, affording the myriad of authors their fair due must have been one of the most difficult tasks McIntyre faced. A few minor errors here and there are not fatal to the book, its message or its credibility. I'm not apologizing for them; knowledgeable, critical or careful readers always need to stay on their toes. All said, this volume adds much more to a bookshelf than the slender space it takes up and I unreservedly recommend it to anyone who is serious in the field of safety, especially aviation safety. I cannot agree more with the author's central thesis that "safety is more than the absence of accidents." This is a concise restatement of Bannister's Law: "The difference in circumstances between a small and a very large loss is often marginal." There is a

world of wisdom in that statement.

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