

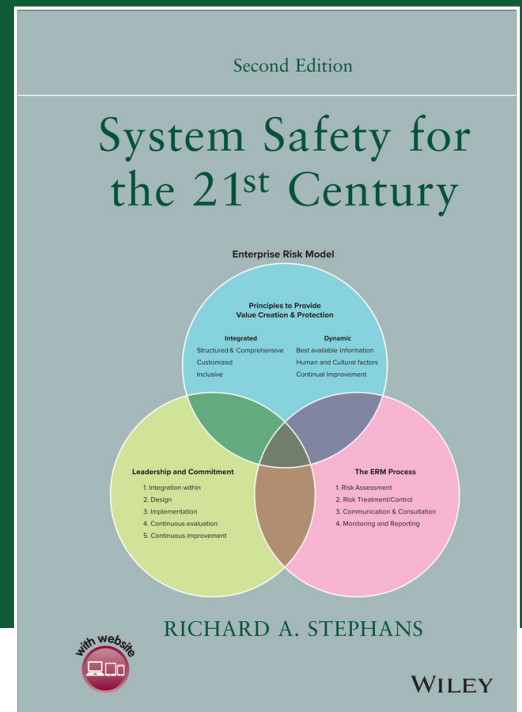
System Safety for the 21st Century

2nd Edition

Richard A. Stephans

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Explore an authoritative and complete exploration of basic and advanced concepts in system safety engineering.

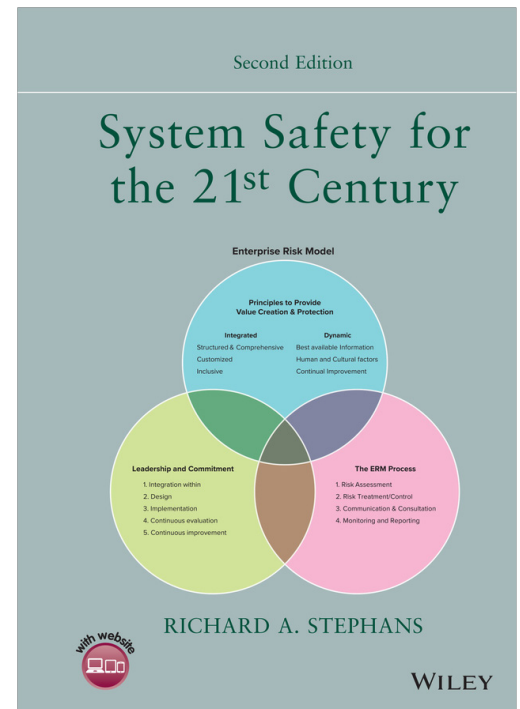
This new book features 30 chapters in seven parts covering: introduction to system safety; system safety program planning, implementation and management; analytical aids; system safety analysis techniques; process safety; healthcare; and professionalism. The healthcare additions include discussions of medical devices, infection control, hospitals, and future challenges and expected breakthroughs.

Integrating the updates in the system safety field that have occurred since the first edition published, this revised and expanded text offers:

- Logical progression from basics to techniques, to applications with principles and tenants.
- A new chapter on risk management with current international and U.S. government standards.
- A key section discussing process safety, which includes both EPA and OSHA implementation as well as facility review methods.
- A unique section on professionalism for system safety and other safety-related practitioners

- A consistent chapter format for easy learning: an introduction and summary for each chapter with review questions reinforcing important points.
- A combination of basic requirements and how-to instruction with practical experience.
- Information on selected techniques to assess hazards and provide management oversight and control.
- Valuable appendices with reference material and a brand-new Instructor Manual with answers to the review questions in each of the chapters and guidance on course development and presentation.

Relevant to industry, academia, and government, **“System Safety for the 21st Century”** is an essential resource for anyone studying or implementing proactive hazard identification and risk management techniques and procedures.



ABOUT THE AUTHOR

Richard A. Stephans is a recently semi-retired former PE, CSP, CEM (Professional Engineer and Certified Safety Professional in Comprehensive Practice and System Safety, Certified Emergency Manager) with B.S. Ch.E. from Purdue and M.S.M.E. from New Mexico State University. He received system safety specialty training at USC and system safety experience with DoD major projects, DOE nuclear research and production, and environmental restoration programs.

Stephans has been an International System Safety Society Member for nearly four decades and has served in leadership and other Society positions at the chapter and national level. He is Co-Editor of the Society’s “System Safety Analysis Handbook” and the recipient of several International System Society awards to include Engineer of the Year, is a Fellow Member, and was a Director of the Board of Certified Safety Professionals for six years. Stephans was the Chair of the New Mexico Engineering Societies’ Presidents Council and is currently a member of the Environmental Management Advisory Board at the Nevada Nuclear Security Site.