

# Safety And Health For Engineers



## Synopsis

The essential guide to blending safety and health with economical engineering Over time, the role of the engineer has evolved into a complex combination of duties and responsibilities. Modern engineers are required not only to create products and environments, but to make them safe and economical as well. *Safety and Health for Engineers, Second Edition* is a comprehensive guide that helps engineers reconcile safety and economic concerns using the latest cost-effective methods of ensuring safety in all facets of their work. It addresses the fundamentals of safety, legal aspects, hazard recognition, the human element of safety, and techniques for managing safety in engineering decisions. Like its successful predecessor, this Second Edition contains a broad range of topics and examples, detailed references to information and standards, real-world application exercises, and a significant bibliography of books for each chapter. Inside this indispensable resource, you'll find:

- \* The duties and legal responsibilities for which engineers are accountable \*
- Updated safety laws and regulations and their enforcement agencies \*
- An in-depth study of hazards and their control \*
- A thorough discussion of human behavior, capabilities, and limitations \*
- Key instruction on managing safety and health through risk management, safety analyses, and safety plans and programs

Additionally, *Safety and Health for Engineers* includes the latest legal considerations, new risk analysis methods, system safety and decision-making tools, and today's concepts and methods in ergonomic design. It also contains revised reference figures and tables, OSHA permissible exposure limits, and updated examples and exercises taken from real cases that challenged engineering designs. Written for engineers, plant managers, safety professionals, and students, *Safety and Health for Engineers, Second Edition* provides the information and tools you need to unite health and safety with economical engineering for safer technological solutions.

## Book Information

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> Technology > Safety & Health #28 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Health & Safety](#) #78 in [Books > Textbooks > Engineering > Industrial Engineering](#)

## Customer Reviews

"I recommend this book for all university libraries where engineering, of any type, is being taught."  
(E-STREAMS, June 2007) "Brauer has written a comprehensive guide that helps engineers reconcile safety and economic concerns using the latest cost-effective methods of ensuring safety in all facets of their work" (Journal of Hazardous Materials, September 1, 2006)

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This book is an excellent resource for taking the ASP exam. The ASP exam is written more from the

stance of an Engineer, which made this book very useful. This was my main resource for the ASP exam, and I must say several of the questions on the exam came directly from the book. I took the exam for the first time yesterday and passed on my first try. Safety & Health for Engineers, along with the ASP self assessment from the BCSP, and a decent, but basic Industrial Hygiene resource (highly recommend Fundamentals of Industrial Hygiene by Blog, et al) are really all you will need to pass your ASP. I would also recommend a math study guide (perhaps Definitions, Calculations and Conversions by Finucane, and/or Background Math for Safety Certification by Young) if you struggle with math. Don't normally do reviews, but I did find Safety & Health for Engineers very useful and thought I'd share. Hope this helps!!

Excellent recommended resource for any safety professional! So much information to refer too.  
Must have

Good Overview of the safety profession from the standpoint of an engineer

Excellent body of knowledge for safety professionals. I keep right on my desk at work as a quick reference, and I have used as a reference throughout my grad school studies. No safety professional should be without this essential reference.

This is a reference book for all practitioners of the safety profession, designers, insurers and lawyers who litigate mishap incidents.

thank you

Got this for school and it was exactly what I needed for a lot cheaper than it was in the student store.

I bought this book to help me prepare for the CSP exam. I passed my exam the first time taking it. It includes ideas, resources, studies, and mathematical formulas that are useful to anyone in the field of safety. Highly recommend.

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Kidpower Youth Safety Comics: People Safety Skills For Kids Ages 9-14 (Kidpower Safety Comics)

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