

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.

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Customer Reviews

If you're going to purchase one book to prepare for the Certified safety Professional (CSP) exam this is it.

I just passed my ASP and this book was an excellent introductory text. While it is understood that many other references have to be used, I recommend this book as one of the first you review.

I am reviewing this book specifically for studying for the ASP and CSP exam because a lot of people buy this book for that purpose. This is by far the best book for studying for the ASP exam (although Yates's reference for safety professionals may be sufficient). This book reads more like a textbook than Yates Reference book which reads like a reference book (hence the title). Brauer wrote this book because he saw that engineers (who have a massive impact on safety) were not sufficiently educated in safety. I mainly used this book and the Yates book for my studying and passed both the ASP and CSP within 10 days of each other. The ASP is technical, black and white, and straight forward, which make both books excellent. The CSP is incredibly broad and scenario-based, so I don't know of any one resource that is perfect for that. This book itself is a 5-star book, but I know that most people buy this specifically for the exams, and you won't get everything you need from this book. I should add that I certainly will not be giving this book away now that I've passed the exams. It's a great resource.

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 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!!

In my opinion this is the single most important preparation tool for the CSP. After you pass the test this virtual encyclopedia of safety engineering will serve as an able tool in your professional toolbox. I wouldn't want to do my job without this book.

My husband is a safety manager in construction, this was for a class he was taking. Thank goodness we didn't have to pay full price for this! I recommend always checking with before purchasing even text books!

This single volume is jam-packed with a great deal of information. You can learn about such things as fire safety, the ergonomics of manual labor, human impact (pardon the pun) of falling accidents, electric shock hazards, the effects on humans of heat and cold, chemical hazards, biohazards, radiation hazards, and so much more.

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