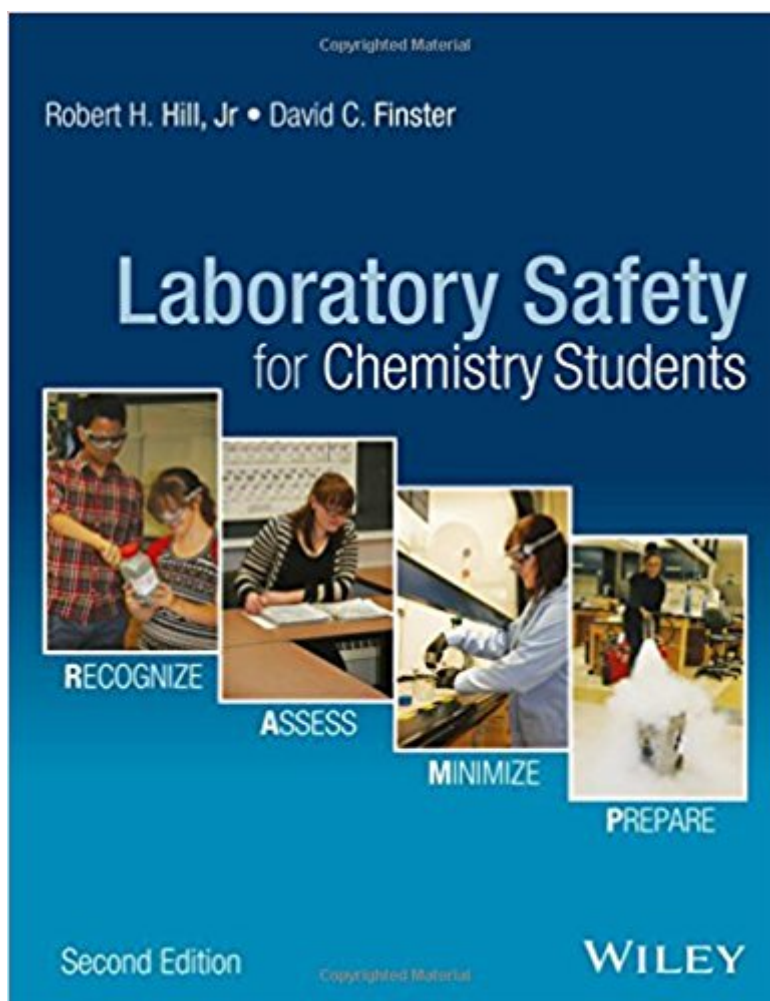




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# Laboratory Safety For Chemistry Students



## Synopsis

Provides knowledge and models of good practice needed by students to work safely in the laboratory as they progress through four years of undergraduate laboratory work. Aligns with the revised safety instruction requirements from the ACS Committee on Professional Training 2015 Guidelines and Evaluation Procedures for Bachelor's Degree Programs • Provides a systematic approach to incorporating safety and health into the chemistry curriculum Topics are divided into layers of progressively more advanced and appropriate safety issues so that some topics are covered 2-3 times, at increasing levels of depth Develops a strong safety ethic by continuous reinforcement of safety; to recognize, assess, and manage laboratory hazards; and to plan for response to laboratory emergencies Covers a thorough exposure to chemical health and safety so that students will have the proper education and training when they enter the workforce or graduate school

## Book Information

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## Customer Reviews

"This is a surprisingly engaging book for what can be a dry subject. This is achieved in no small part by the use of quotes ranging from Nobel winning chemists to Han Solo and the real world examples at the start of each chapter. This gives food for thought and grounds the theory giving it much needed context. This is vital for students who may not have encountered anything but a standard cookbook experiment before. The RAMP system (recognise hazards, assess risks, minimise risks, prepare for emergencies) takes centre stage throughout giving a useful aide-memoire underpinning the diverse range of safety topics. No hazard that may be encountered in the lab is neglected. The

book includes informative chapters on biological and radiation safety that broaden its appeal to all scientists as well as all aspects of chemistry. The chemistry content in this book is by no means trivial; sidebars explore kinetics, thermodynamics and advanced organic chemistry. The detail and the contextual information require the application of chemical knowledge rather than simple lists of rules and regulations. This combined with the many questions provided would make it an ideal companion to most lab based courses. Indeed the information is broad enough and detailed enough for this to be a useful reference for professional practitioners of chemical safety. (Education in Chemistry, Jan 10th 2017)

<https://eic.rsc.org/review/laboratory-safety-for-chemistry-students-2nd-ed/2500228.article>.

A unique approach to keeping you safe in the lab throughout your undergraduate education and beyond *Laboratory Safety for Chemistry Students* is unlike any other college textbook youâ™ve ever seen. Itâ™s designed to accompany you throughout your four-year undergraduate education and beyond, teaching you the skills and knowledge you need to learn your science and stay safe while youâ™re working in the lab and the new edition aligns with the revised safety instruction requirements from the ACS Committee on Professional Training 2015 âœGuidelines and Evaluation Procedures for Bachelorâ™s Degree Programsâ•. The book is organized around four core principles of safety (RAMP): âœ Recognizing hazards âœ Assessing risks of hazards âœ Minimizing the risks of hazards âœ Preparing for emergencies Each of the bookâ™s eight chapters is organized into three tiers of sections, with a variety of topics suited to introductory, intermediate, and advanced courses. This enables you to learn the relevant safety information you need for your particular course level. Each section begins with a brief description of a laboratory incident that illustrates the importance of the topic. A multiple choice quiz concludes each section to help you assess your grasp of the topic. Throughout the text, âœChemical Connectionsâ• illustrate how chemical principles apply to laboratory safety. In addition, âœSpecial Topicsâ• explore additional safety issues relevant to particular sections. As you progress through the text, youâ™ll learn everything you need to know to stay safe in the lab, from the latest âœbest practicesâ• in chemical lab procedures to up-to-date explanations of the laws and regulations related to laboratory safety. Most importantly, youâ™ll learn how to identify and manage safety concerns before they can do harm.â Robert H. Hill, Jr, PhD, has more than thirty years of experience working in the occupational and environmental health community at the Centers for Disease Control and Prevention (CDC). He has worked in the CDC research laboratories of the National Institute for Occupational Safety and Health and the National Center for Environmental Health. Dr. Hill has also

worked in the Office of Health and Safety, serving as acting director, and presently works part time for Battelle Memorial Institute in Atlanta. He is involved with American Chemical Society (ACS) Committee on Chemical Safety (former Chair) and with the ACS Division of Chemical Health and Safety (former Chair). He is on the Board of Editors of the Journal of Chemical Health and Safety. He has a great passion for lab safety and for preventing lab incidents. David C. Finster, PhD, is Professor of Chemistry at Wittenberg University, where he has served as chair of the Chemistry Department. He is the university's Chemical Hygiene Officer and a Certified Chemical Hygiene Officer (NRCC, 1999). He is a member of the American Chemical Society (ACS) Committee on Chemical Safety and chair of the Safety Committee in the Division of Chemical Education. He is on the Board of Editors of the Journal of Chemical Health and Safety. He has presented numerous talks and workshops on the application of intellectual development theory to learning science and chemistry and has been a volunteer firefighter and hazmat technician for many years.

Cover Credit: Amil Anderson

This is a wonderful and comprehensive book on how to stay safe in a laboratory. It's based on the idea of anticipating safety issues. Once recognized, the student can assess the risk, determine how to minimize any dangers and prepare for the worst case scenario. This book is huge and has a great deal of information in it. It's not the kind of manual to where you sit down and read page by page and hope to absorb all of the material. The table of contents has a nice breakdown of the chapters and there is a good index too. Both are there to help a student find exactly what he or she is looking for and readers can learn about safety in general as well as specific risks when working with certain materials. I think it's a great reference to have on the shelf for preparing for any work in a lab.

I think back to my days as a chemistry student and later as a lab technician and have to marvel at the fact that I escaped unscathed. We routinely handled concentrated acids, poisonous substances and highly flammable liquids. A book like this probably would have been good to have around as it lays out a systematic way to anticipate problems, assess risks and deal with accidents. My only concern is that those people most in need of this book probably will not internalize the content.

Accidents can happen anywhere and this textbook tries to prevent any from happening within the lab. The book first starts with real life incidents in which an accident occurs. Then it proceeds to explain what caused the event, how to reduce the risk of it occurring, and what to do if a similar

event occurs. The list of scenarios portray almost every possible accident in a lab ranging from hair catching on fire, to electrical hazards, to hazardous chemical explosions. Depending on the size of your laboratory, many of these scenarios may never be a concern for you. However, this assures that no matter what you are doing in your lab, you will be able to review the possible hazards beforehand and prevent any accidents from happening.

This is the second addition, and the first was well received. They added a few more pages since the last publication. Book is set out in a nice fashion, with the easier concepts first. You can also skip to a section as needed. I got this for my college student yet read the first few chapters myself. How to avoid human error, what to watch for, the why of concepts even for situations you haven't been in yet. What to do after an incident, which can be just as important if not more so than avoiding one. This book is definitely a keeper, there is a large amount of information to take in and will always be good for review.

Well written college level textbook on laboratory safety. This would have been nice to have when I was going to school. This manual stresses the importance of safety and the ability to recognize potential hazards and preventative steps. This also goes over how to deal with emergencies in the lab should an accident occur. While this is meant for college level I believe this would be a good read for a college bound high school student or home school student. I have a very basic lab in my home for my students and I believe this is worth the read to emphasize safety.

This is an excellent text for a Lab safety course and describes the full gamut of issues students should be prepared to watch for in a variety of laboratory situations. Written in a very clear format and each section includes questions on the section to test student retention of the life saving basics to help avoid the kind of accidents every lab teacher worries about.

Robert Hill Jr and David Finster's "Laboratory Safety for Chemistry Students - 2nd Ed" is a thorough and detailed textbook on lab safety for chemistry classrooms. It covers a huge range of topics of ethics, hazards, toxins, etc. It is a intensive textbook that is worth a look for anyone working in a classroom lab.

This is what is claims to be....a safety review. Pretty basic but good all around - not really specialized and yes, a lot of common sense but that is good because it doesn't assume the student

knows anything about working in a lab. Solid.

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