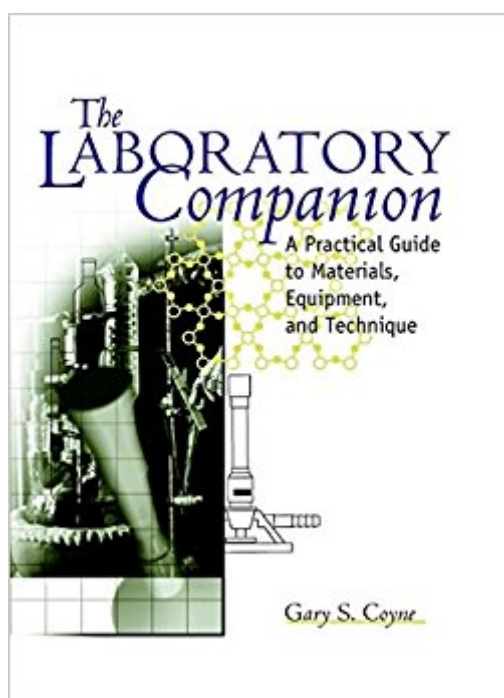


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The Laboratory Companion: A Practical Guide To Materials, Equipment, And Technique



Synopsis

Praise for The Laboratory Handbook by Gary S. Coyne & "This is probably the most useful volume I have encountered for many years and should be made compulsory reading for all those involved in research, particularly new research students." - Chromatographia "The book will be valuable for readers needing to understand the theory and proper using, cleaning, and storing methods of laboratory equipment. Safety issues are thoroughly covered. The book is a useful 'how-to-use' reference for students, novices, and experienced laboratory personnel." - JACS An updated version of the critically acclaimed Laboratory Handbook, this guide to laboratory materials, equipment, and techniques is an important resource for students as well as veteran scientists and lab technicians. From vacuum technology and glass vacuum systems to volumetric glassware, gas-oxygen torches, and cryogenic tanks, The Laboratory Companion provides complete coverage of all commonly used lab equipment, including essential information about its selection, use, cleaning, and maintenance. It clearly explains the historical development and rationale behind how and why things are done in the lab, and includes helpful guidelines and step-by-step procedures for each topic discussed. Since glassware is typically the most prevalent type of lab equipment, much of the book is devoted to the properties and handling of glass apparatus, with additional material on rubber and plastic tubing, corks, stoppers, and O-rings. Readers will also find broad coverage of measurement systems, high- and low-temperature apparatus and techniques, compressed gases, vacuum systems, and other essential subjects.

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Customer Reviews

The Laboratory Companion, is a valuable reference guide for all those working in scientific laboratories. The range of information provided covers commonly used materials, equipment, and techniques found in most labs. Safety practices and safe procedures are constantly emphasized when discussing the proper methods of selecting, using, cleaning, and maintaining laboratory equipment (vacuum, compressed gases, measurement equipment, cryogenics, and other), as well as a thorough discussion of glassware.

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This book will give you understanding of the theory and proper use, cleaning, and storing methods of laboratory equipment. Particularly valuable for new research students.

Mr. Coyne's experience and research shines through in the text. He includes excellent reference materials, charts and tables guide you on many practical lab activities, from simple, such as how to insert tubing into rubber stoppers, to complex, as in operating vacuum devices. In view of the excellent job he did in this book, I have requested that he consider writing a second in a series

addressing how, why and when to use specific or unusual glassware, such as Graham, Allihn, and the various kinds of condensers, drying tubes, separatory funnels and the many other types of specialized glassware there seems to be little published about.

Coyne's book shares a wealth of information regarding laboratory equipment such as standard glassware, volumetrics, vacuum greases and oils. It also manages to cover fundamental basic vacuum and air sensitive techniques in terms that don't require a Phd. I highly recommend this book to Chemistry technicians, graduate students and scientists as a reference guide to safe procedures and materials.

The usefulness of this text rivals the CRC Handbook. It has a good balance of readable text and reference material, and everything is well arranged and easy to find. It's well worth its asking price (which is what I paid at the college bookstore).

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