



# The Laboratory Companion: A Practical Guide to Materials, Equipment, and Technique

*Gary S. Coyne*

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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 use, 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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