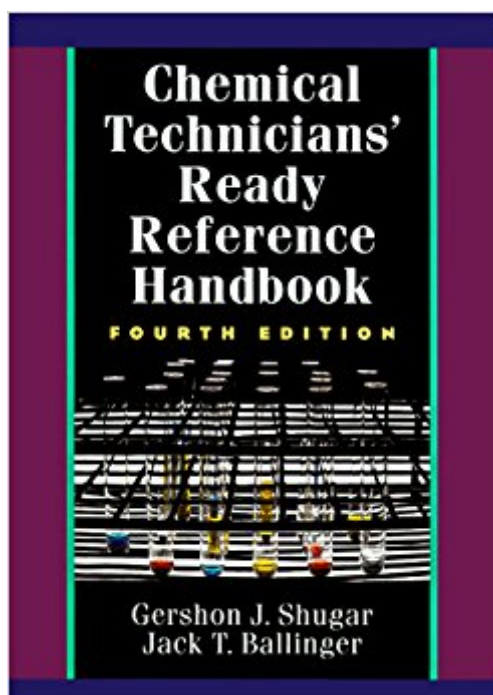


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# Chemical Technicians' Ready Reference Handbook, 4th Edition



## Synopsis

The definitive reference of laboratory safety, analytic procedures, and instrumentation techniques for the modern chemical laboratory. Cited in BCL3, the new edition contains expanded chapters on gas chromatography (GC) and high- performance liquid chromatography (HPLC) and physical properties and testing methods, with a new chapter on thermal analytic methods as well as on electrophoresis. Also includes up- to-date information on the role of chemical laboratory technicians and chemical process operators in industry and current data on laboratory safety, chemical waste disposal, government regulations, and ISO-9000. Explains in detail the day-to-day procedures, techniques, and formulas of today's chemical laboratory. The new edition (2nd was 1981), emphasizing the importance of safety, has been expanded to include additional information on material safety data sheets, chemical waste disposal, Right-to-Know regulations, and the National Fire Protection Association codes. Also new is material on such topics as gas chromatography, high-performance liquid chromatography, infrared spectroscopy, atomic absorption spectroscopy, and computers in the laboratory.

## Book Information

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## Customer Reviews

THE INDISPENSABLE REFERENCE FOR ANYONE WORKING IN THE CHEMICAL PROCESS INDUSTRIES--NOW UPDATED AND EXPANDED TO TAKE YOU INTO THE 21ST CENTURY

The best-selling Chemical Technicians' Ready Reference Handbook is the definitive reference on laboratory safety, analytical procedures, and instrumentation techniques for the modern chemical laboratory. Hailed in three previous editions for its scope and depth of coverage and concise,

step-by-step directions for performing virtually every laboratory task, the Handbook remains the undisputed classic in the field. Revised to reflect the latest developments in operational procedures for today's sophisticated chemical technologies, the Fourth Edition features:

- \* Up-to-date information on the role of chemical laboratory technicians and chemical process operators in industry
- \* Current data on laboratory safety, chemical waste disposal, government regulations, and ISO-9000
- \* New and expanded chapters on laboratory statistics, computers in the laboratory, thermal analysis techniques, and electrophoresis
- \* Expanded step-by-step procedures for laboratory instrumentation, including chromatographic separation techniques and spectrophotometric methods
- \* Coverage of classic wet methods such as gravimetric and volumetric analysis, Karl Fischer water determinations, and Kjeldahl nitrogen.

The Chemical Technicians' Ready Reference Handbook continues to be the best place to turn for the procedures, techniques, and formulas used in the modern chemical laboratory.

Gershon J. Shugar is the author of The Chemical Technician's Ready Reference Handbook, also published by McGraw-Hill, and professor emeritus of engineering technologies at Essex County College, Newark, New Jersey. In 1947, Dr. Shugar founded a chemical manufacturing business that became the largest exclusive pearlescent pigment manufacturing company in the United States. In 1968, he was appointed assistant professor of chemistry at Rutgers University, where he taught until his appointment at Essex County College. Jack T. Ballinger, Ed.D., is professor of chemistry at St. Louis Community College at Florissant Valley and the author of Chemical Technician's Ready Reference Handbook, published by McGraw-Hill. Dr. Ballinger has taught chemical technology courses for the past 29 years. He is a member of the American Chemical Society's coordinating committee developing national skill standards for the chemical process industry.

I recently purchased this textbook to serve as a refresher for undergraduate analytical chemistry and to supplement my job specific training as a chemical technician. The text covers a wide variety of topics and includes some material not normally covered in undergraduate analytical coursework. Overall, this text is a useful resource; however, there are some issues that should have been resolved by now, considering this text is in its fifth edition of print. After reading through two chapters, here are the errors that stand out to me: (1) There are many grammatical errors and sentence structure mistakes. (2) Some common cations in the "Inorganic Chemistry Review" are named incorrectly, and (3) There are also some mislabeled cyclic hydrocarbons in the "Organic Chemistry Review" chapter. I have only read through two chapters of this text thus far. Assuming

there are no fundamental theory inaccuracies, I would still recommend this book to anyone who plans to work in the pharmaceutical or biotech industries. The topics covered in the first 8 chapters of this book are not generally covered in undergraduate coursework, or are often covered with minimal application. Although this training is typically provided by your employer, exposure to this material would serve as an advantage, especially in today's ever changing and competitive market.

This is a must have book for a quick reference in a laboratory of Chemistry. It explains in detail techniques very important to carry out, classification of chemicals, I just can not make do without it. Work in a laboratory of Chemistry, especially in high school level and upper, implies the use of a variety of equipments. This book makes it easy!

I refer to this on a weekly basis in my lab. Highly recommended.

Great reference of a general industrial laboratory. Easy to use and provides a good 'refresher' for general chemistry information. Ready reference is a good description!

A safety & good lab practice guidebook that all laboratories should have. Content on Technical skills & good housekeeping are invaluable.

It is a basic handbook for Technicians there some interesting tidbits and tables but not enough details oriented for my personal/research use in GC/MS Referencing or solvent compatibilities. Needs up to date reference tables for water, waste water pollution sampling and preservation techniques.

This book is informative and excessive. Bought for a course that required its purchase. Wouldn't buy if it wasn't needed.

an absolute must, even for seasoned chemists

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