

Chemical Technicians' Ready Reference Handbook, 4th Edition

By Gershon J. Shugar, Jack T. Ballinger

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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.

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Chemical Technicians' Ready Reference Handbook, 4th Edition By Gershon J. Shugar, Jack T. Ballinger Bibliography

- Rank: #2392882 in Books
- Published on: 1996-06-01
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 2.14" w x 7.80" l, 4.05 pounds
- Binding: Hardcover
- 972 pages

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Editorial Review

From the Back Cover
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, an formulas used in the modern chemical laboratory.

About the Author
Gershon J. Shugar is the author of The Chemist’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.

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