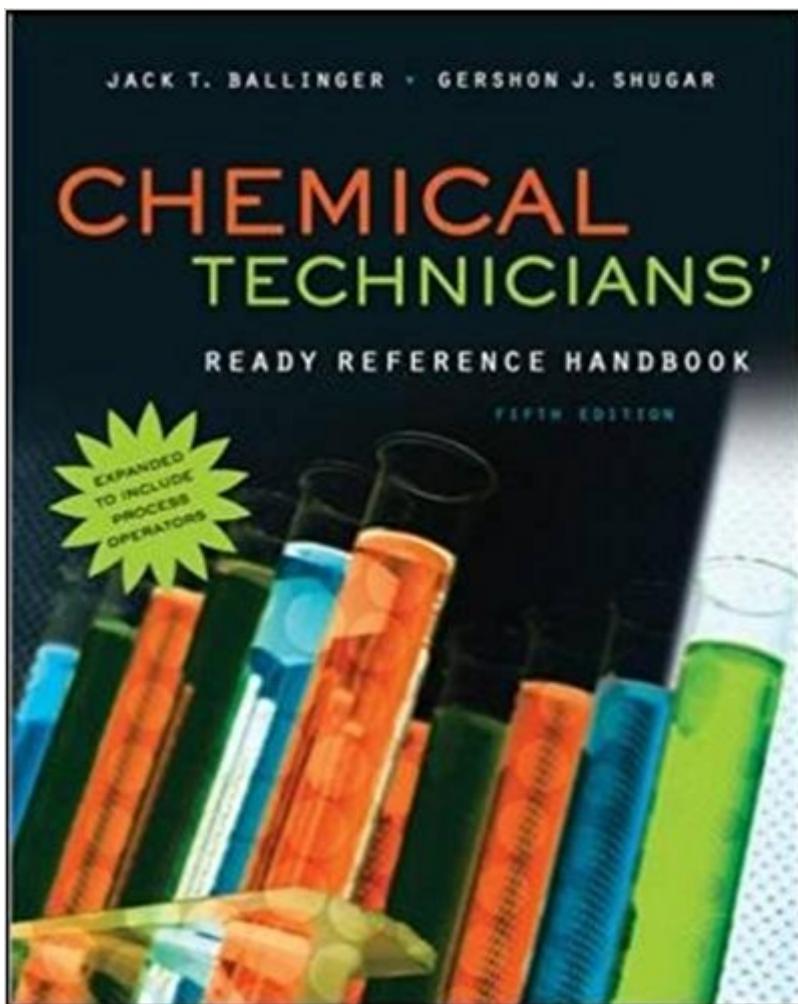


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# Chemical Technicians' Ready Reference Handbook, 5th Edition



## Synopsis

THE DEFINITIVE CHEMICAL PROCESS INDUSTRY REFERENCE--FULLY REVISED Updated to reflect the latest developments in operational procedures for today's sophisticated chemical technologies, Chemical Technicians' Ready Reference Handbook, Fifth Edition, remains the undisputed classic in the field. Expanded to include coverage for process operators, this authoritative resource contains in-depth details on chemical safety, laboratory procedures, chemical nomenclature, basic electricity, laboratory statistics, and instrumental techniques. Step-by-step directions for performing virtually every laboratory task are also included in this practical guide.

**COMPREHENSIVE COVERAGE INCLUDES:** Chemical process industry workers and government regulations Chemical plant and laboratory safety Chemical handling and hazard communication Handling compressed gases Pressure and vacuum Mathematics review and conversion tables Standard operating procedures Laboratory glassware pH measurement Basic electricity Sampling Laboratory filtration Recrystallization The balance Gravimetric analysis Preparation of solutions Process analyzers Plumbing, valves, and pumps Physical properties and determinations Extraction Distillation and evaporation Inorganic and organic chemistry review Chemical calculations and concentration expressions Volumetric analysis Chromatography Spectroscopy Atomic absorption spectroscopy

## 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. --This text refers to an out of print or unavailable edition of this title.

Jack T. Ballinger, B.S, M.S., Ed.D., was a professor of chemistry and chemical technology at St. Louis Community College for 35 years, and is currently an adjunct faculty member with the National Corn-to-Ethanol Research Center at Southern Illinois University, Edwardsville, Illinois. He serves as the Education and Workforce Development Coordinator and presents courses on ethanol process operations and courses training new process operators and laboratory technicians. Gershon J. Shugar, B.S., M.A., Ph.D., was a professor of engineering technologies at Essex County College, Newark, New Jersey. In 1947, he founded a chemical manufacturing business that became the largest exclusive pearlescent pigment manufacturing company in the United States. In 1968, Dr. Shugar was appointed assistant professor of chemistry at Rutgers University, where he taught until his appointment at Essex County College.

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 standout 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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