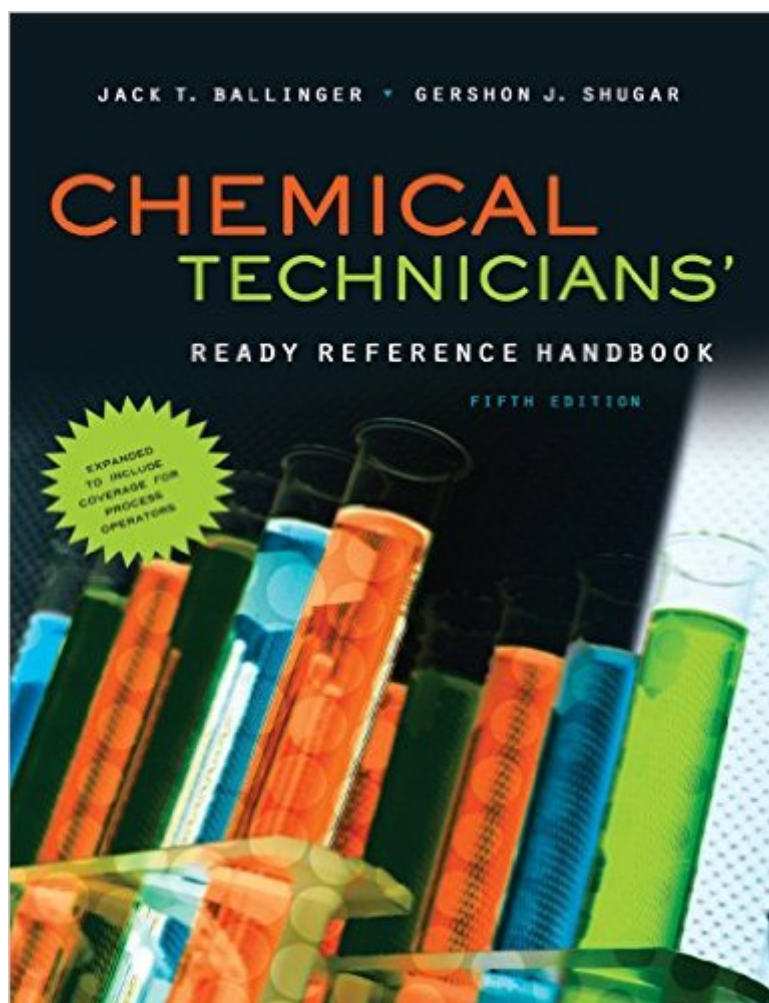


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# Chemical Technicians' Ready Reference Handbook, 5th Edition



## 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

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## Customer Reviews

This book provides me with technical information commonly needed in a laboratory environment. It seems to boil down many references all into one easy to read book. The index is fantastic, you can

find anything in the book quickly and easily. This is usually a problem with most reference books, but not with this one.

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 great book to own. Every time I needed to find something I opened this book and it was there for me. It is very clearly written and contains lots of helpful info. A big Thanks to Dr. Ballinger :-)

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!

This book is invaluable for training of inexperienced lab techs and for reference for more experienced ones. Indispensable.

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.

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