

## WASTEWATER MICROBIOLOGY: A HANDBOOK FOR OPERATORS

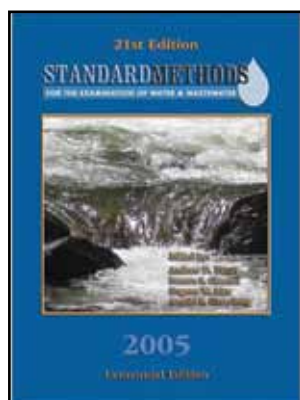
By: Toni Glymph

Wastewater treatment is a microbiological process. Microorganisms, such as bacteria and protozoa, do the actual breakdown and removal of nutrients and organic material in wastewater. A wastewater treatment plant operator's job is to control this biological process. That is why wastewater operators need to understand basic microbiology as well as the types of microorganisms that are used in the treatment of sewage and how the microbes do their job in the wastewater treatment process. Chapters cover wastewater treatment, general microscopy, bacteria, protozoa, metazoans, filamentous bacteria, microbiology, and process control. Includes a glossary of terms and color photographs of microorganisms on CD-ROM.



Published by AWWA, ©2005, softbound, 182 pages.

**BK-301 85.00/ea**



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- ◆ Discussion of BOD, CBOD, and COD, including comparative data and correlations
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- ◆ Dilution water
- ◆ Seeding
- ◆ Sample Benchsheets
- ◆ Statistics, control charts, GGA
- ◆ Troubleshooting
- ◆ Solving dilution water blank problems

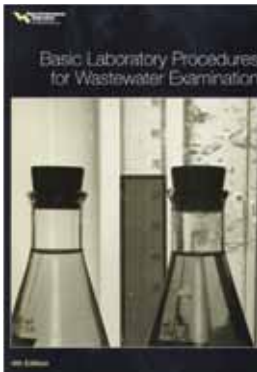
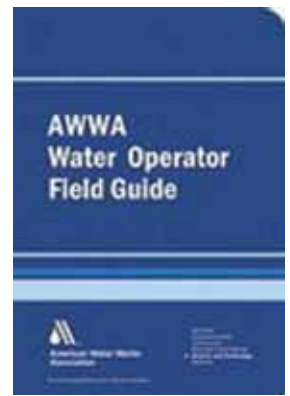
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**AWWA WATER OPERATOR FIELD GUIDE**

The AWWA Water Operator Field Guide is packed with all the day-to-day information you need, in a compact (4 1/4" x 7 1/4"), ready-to-use guide. Major sections include math, conversion factors, chemistry, safety, water quality, water treatment, distribution, wells, pumps, pressure, flows, and meters.

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In it's 4th edition, *Simplified Laboratory Procedures for Wastewater Examination* has been revised and renamed. It explains, in easy to understand language, a variety of topics including laboratory analysis, physical and chemical examination, microbiological examination, and data recording and reporting. Designed for the operator with a limited background in chemistry. 146 pages, soft cover.

**BK-102**

**76.00/ea**

Please Note: This book is the substitute for *Simplified Laboratory Procedures for Wastewater Examination* (NCL# BK-101), which has been discontinued by the publisher.



**WATER AND WASTEWATER LABORATORY TECHNIQUES**

This valuable reference deals with many aspects of lab technique required for water and wastewater analysis. Includes chapters on reagents, balances, laboratory ware, volumetric and temperature measurements, solutions and dilutions, calibrations, calculations, and reporting results.

Use this book as a supplement to Standard Methods or your other reference materials. Deals in depth with the equipment and lab technique but not the procedures themselves. All of the items pictured in this book are available from NCL at bargain basement prices. 218 pages, spiral bound.

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This newly revised second edition emphasizes the biological aspects of wastewater treatment that are valuable to operators and technicians in understanding and regulating their treatment processes. Discusses the description and functions of organisms and microorganisms found in wastewater treatment processes. Generously illustrated with a minimum of technical jargon. Includes chapters on the microscope, photomicroscopy, and filamentous microorganisms. 196 pages, soft cover.

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## **IRON AND MANGANESE REMOVAL HANDBOOK**

This handbook provides the latest treatment techniques for removing iron and manganese from raw water. An invaluable resource for water treatment operators, the book explains operating procedures and equipment used, for both surface water and groundwater sources. 158 pages, soft cover.

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### LAB NOTEBOOK: NALGENE# 6301

These notebooks feature permanently sewn-in paper pages. 100 pages (50 sheets) have spaces for dates, signatures of workers, witnesses, and necessary documentation for securing patent protection.

Overall dimensions: 8<sup>3</sup>/<sub>4</sub>" x 11<sup>1</sup>/<sub>4</sub>" x 1/2" .

Page Format	Cover Color	NCL #	Price/ea
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### LAB NOTEBOOK: NALGENE# 6300

Books have a thick polyethylene cover, PolyPaper pages are completely waterproof and extremely chemical resistant. 100 pages (50 sheets) include spaces for dates and signatures of workers and witnesses and necessary documentation for securing patent protection.

Overall dimensions: 9<sup>1</sup>/<sub>4</sub>" x 11<sup>1</sup>/<sub>4</sub>" x 1/2" .

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lined	Blue	<b>LN-100A</b>	<b>58.00</b>



### LAB GRAPH NOTEBOOK

Easy-to-use book contains 22 different master lab graphs and charts. Reproduce as many graphs as you require using your office copier. Plot lab results, quality control tabulations, ion electrode measurements, absorbance/concentration curves and more. Graphs supplied are linear squares (squares per inch: 4, 6, 8, 10, 20), metric squares (squares per centimeter: 5, 10), charts (columns of: 11 x 40 and 11 x 52), semilog (cycles: 1, 2, 3, 4, 5), log (cycles: 1 x 1, 2 x 2, 3 x 3, 3 x 5), circular pie, triangle, and probability.

**GP-306**

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