

Look for
Making Decisions about Water and Wastewater Processes

by
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“Critical Cleaning Agents and Systems”
part of the expanded, revised, updated Second Edition of

“Handbook for Critical Cleaning”

B. Kanegsberg and E. Kanegsberg, editors
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Topics

Water and Wastewater Operational Factors

DISCHARGE REGULATIONS

Water and Wastewater

Solid Waste

WASTEWATER VOLUME

WATER PURITY SPECIFICATION

Measuring Water Purity

Dissolved Contaminants

Undissolved Contaminants

pH

SOURCE (TAP) WATER TREATMENT

OPTIONS

No Treatment

Dissolved Solids (Ions) Removal

Reverse Osmosis

Deionization

Calculating Ion Exchange Resin Capacity

Deionizer Resin Operating Options

RO or DI or Both

Case Histories

WASTEWATER TREATMENT OPTIONS

No-Discharge Wastewater Option

Closed-Loop Design

Case Histories

Zero-Wastewater Discharge Design

Wash Chemical Stage

Volume of Wastewater

Hauling

Evaporation

Recycling

Case History

Dragout Stage

Rinse Water Stage

Calculating Water Purity Specifications

Discharge Wastewater Option

Fat, Oil, and Grease

Free Oil

Emulsified Oil

pH

Biological Oxygen Demand and Chemical

Oxygen Demand

Toxic Metals

Case Histories

OTHER TREATMENT OPTIONS

Distilled Water

Water Softening

Electrodeionization

Mechanical Filters

Adsorption (Activated Carbon)

Oxidation

Ultraviolet Radiation

*WASTEWATER TREATMENT FOR NEW
PROCESS*

Source Water Treatment

No-Discharge Wastewater

Wastewater Discharge

OVERCAPACITY OF THE CURRENT

WASTEWATER TREATMENT SYSTEM

About John Russo

John F. Russo is the President and founder of Separation Technologists. He has worked in the high purity water, filtration, and wastewater treatment field for more than 35 years. He has authored more than ten technical papers. Separation Technologists is the recipient of the U.S. EPA Stratospheric Ozone Protection Award for “Leadership in Closed-loop Water Recycling.” John holds an Associate’s degree in Engineering and a B.S. degree in Chemistry.

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About Handbook for Critical Cleaning

Handbook for Critical Cleaning is unique among printed and on-line resources as a succinct, independent, comprehensive, holistic, practical, educational resource. Readers learn not only the familiar technologies, but also technologies used by other industrial sectors. This cross-pollination results in synergies; and makes the book a valuable resource for all manufacturers. The second edition is expanded, revised, and updated to help you manufacture high quality, competitive products.

Review of the First Edition

"Had some nasty cleaning issues all this week, and the Handbook has come in handy."

Michael Alderete, The Boeing Company

Second Edition scheduled for publication, early 2011

Pricing:

Handbook for Critical Cleaning, Second Edition – Two volume set: \$179.95/£114.00-UK

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Critical Cleaning Agents and Systems - \$99.95/£63.99-UK

Critical Cleaning Applications, Processes, and Controls - \$99.95/£63.99-UK

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