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institutional facility. Reflecting major advances in technology and the latest regulatory requirements, this thoroughly revised classic covers basic water chemistry and explains how to improve water quality, minimize water usage, and implement more efficient treatment processes. The Third Edition features new information on wastewater, cooling systems, microbiological control, energy conservation, environmental hygiene, and steam generation problems and prevention. Every essential water treatment topic is covered in this authoritative volume, including: The chemistry of water Water sources Contaminants Impurity removal Steam generation Energy in water systems Wastewater discharge Industrial and municipal use of water

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With the nation looking toward a goal of "zero discharge" in water pollutants by the early 1980s, this timely handbook is an ideal source of information for specialists & nonspecialists alike. It provides completely practical data & techniques in the four major water conservation & use areas: (1) water chemistry, sources, & contaminants; (2) unit operations & treatment; (3) industrial & municipal use of water & its disposal; & (4) special technology in water treatment.

The Landmark Water Use and Treatment Resource—Fully Updated for Optimizing Water Processes This industry-standard resource from the world's leading water management company offers practical guidance on the use and treatment of water and wastewater in industrial and

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institutional facilities. Revised to align with the latest regulations and technologies, The Nalco Water Handbook, Fourth Edition, explains water management fundamentals and clearly shows how to improve water quality, minimize usage, and optimize treatment processes. Throughout, new emphasis is placed on today's prevailing issues, including water scarcity, stressors, and business risk. Covers all essential water treatment topics, including:

- Water management fundamentals
- The business case for managing water
- Water sources, stressors, and quality
- Basic water chemistry
- Impurity removal
- Steam generation
- Cooling water systems
- Safety for building water systems
- Post-treatment
- Energy in water systems
- Water applications across various industries

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Focusing on water supply and treatment, this book offers practical advice on how to improve water quality, optimize water usage and treatment processes, and avoid mistakes when dealing with vendors. It covers topics such as: chemistry of water; water sources; water contaminants; water treatment; water disposal; and industrial use of water.

From explanations of laws and regulations to hands-on design and operation-the Handbook has it covered!

"An update of today's best guide to water use and conditioning. The Third Edition of The Nalco Water Handbook offers you complete guidance on the use and conditioning of



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water and wastewater in any industrial or institutional facility. Reflecting major advances in technology, this updated classic covers basic water chemistry and shows how to improve water quality, water usage, and treatment processes. Emphasizing "how things work," the Third Edition features new information on cooling systems, microbiological control, legionella, energy conservation, environmental hygiene, and steam generation problems and prevention. It also discusses new applications in pharmaceutical plants, the electronics industry, groundwater and acid rain treatments, and more."

Over the past few decades the boom in the industrial sector has contributed to the release in the environment of pollutants that have no regulatory status and which may have significant

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impact on the health of animals and humans. These pollutants also refer as "emerging pollutants" are mostly aromatic compounds which derive from excretion of pharmaceutical, industrial effluents and municipal discharge. Some form of pollutions have also evolved, including the proliferation of acid mine drainage from oxidation or weathering of obsolete and unmanaged excavations around the world; this results mostly in the dispersion of inorganic pollutants in the environment at level surpassing the treatment capacity of conventional techniques. It is recurrent these days to find water treatment plants which no longer produce water that fits the purpose of domestic consumption based on newly established guidelines. This situation has prompted water authorities and researchers to develop tools

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for proper prediction and control of the dispersion of pollutants in the environment to ensure that appropriate measures are taken to prevent the occurrence of outbreaks due to sudden load of these pollutants in the water system. The chapters in this book cover a wide range of nano and bio-based techniques that have been designed for the real time detection of emerging contaminants in environmental water sources, geochemical models that are continuously improved for the prediction of inorganic contaminants migration from the mine solid wastes into ground and surface waters. Remediation strategies are also discussed and include effective techniques based on nanotechnology, advanced membrane filtration, oxidative and bio- degradation processes using various types of nanocatalysts, biocatalysts or

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supporting polymer matrices which are under advanced investigations for their implementation at large scale for the removal of recalcitrant pollutants from polluted water. This book is divided into two sections, the first section covers the occurrence of emerging pollutants in environmental water while the second section covers state of the art research on the removal of emerging pollutants from water using sustainable technologies. A total of 13 chapters addressing various topics related to the two sections are essentially based on recent development in the respective field which could have a significant impact on the enhancement of the performance of wastewater treatment plants around the world and especially in developing countries where access to clean and safe water remains a daily challenge

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Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The Most Complete, Current Guide to Failure Analysis for Cooling Water Systems Fully updated for the latest technologies and techniques, this new edition describes proven procedures for determining the root cause of cooling system failure, correcting the problem, and preventing future occurrences. The first section covers cooling water system design and operation and features ten new chapters on the various materials most commonly found in cooling systems. The remaining four sections discuss waterside corrosion, cracking, mechanical damage, and material and design

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issues. This authoritative resource explains how to identify failure locations and mechanisms, recognize critical factors influencing failure, carry out inspection procedures, and implement preventive measures to reducedamage. Illustrative case histories are provided in each chapter. The Nalco Guide to Cooling Water Systems Failure Analysis, Second Edition, covers:

- Carbon and alloy steel
- Cast iron
- Stainless steel
- Copper alloys
- Aluminum alloys
- Corrosion-resistant alloys
- Coatings
- Nonmetallic materials
- Brazed and soldered joints
- Corrosion monitoring
- Crevice and underdeposit corrosion
- Oxygen corrosion
- Biologically influenced corrosion
- Acid corrosion
- Alkaline corrosion
- Galvanic corrosion
- Dealloying
- Intergranular corrosion
- Graphitic corrosion
- Localized and pitting corrosion
- Corrosion fatigue
- Stress corrosion cracking

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Erosion-corrosion Cavitation Manufacturing defects Weld defects Design and operating conditions

A guide to the identification and elimination of corrosion in cooling water systems and related equipment. This book features full-color photographs of actual failures, which illustrate the detailed description of each common failure mode presented. It includes case histories, and also presents a variety of environments and equipment.

Mineral Scales and Deposits: Scientific and Technological Approaches presents, in an integrated way, the problem of scale deposits (precipitation/crystallization of sparingly-soluble salts) in aqueous systems, both industrial and

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biological. It covers several fundamental aspects, also offering an applications perspective, with the ultimate goal of helping the reader better understand the underlying mechanisms of scale formation, while also assisting the user/reader to solve scale-related challenges. It is ideal for scientists/experts working in academia, offering a number of crystal growth topics with an emphasis on mechanistic details, prediction modules, and inhibition/dispersion chemistry, amongst others. In addition, technologists, consultants, plant managers, engineers, and designers working in industry will find a field-friendly overview of scale-related challenges and technological options for their mitigation. Provides a unique, detailed focus on scale deposits, includes the basic science and mechanisms of



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scale formation Present a field-friendly overview of scale-related challenges and technological options for their mitigation Correlates chemical structure to performance Provides guidelines for easy assessment of a particular case, also including solutions Includes an extensive list of industrial case studies for reference

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