

The Nalco Guide To Cooling Water Systems Failure Ysis Second Edition

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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.

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 issues. This authoritative resource explains how to identify failure locations and mechanisms, recognize critical factors influencing failure, carry out inspection procedures, and

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

Practical, up-to-date techniques for identifying and eliminating common causes of boiler failure Filled with more than 200 color images, The Nalco Guide to Boiler Failure Analysis, Second Edition categorizes distinct failure modes that typify nearly all boiler problems and walks you, step by step, through their solutions. Each type of failure is classified according to its location, general description, critical factors, identification, elimination, cautions, and related problems. Real-world case histories are included throughout. This authoritative resource contains new chapters on: Phosphate corrosion Stress-assisted corrosion Steam and condensate damage Flow-accelerated corrosion Comprehensive coverage includes: Water- and steam-formed deposits * Short- and long-term overheating * Caustic corrosion * Low-pH corrosion * Hydrogen damage * Chelant complexing * Oxygen corrosion * Corrosion during cleaning * Corrosion fatigue cracking * Stress corrosion cracking * Graphitic corrosion * Dealloying * Cavitation * Erosion * Waterwall fireside corrosion * High-temperature furnace corrosion * Cold-end corrosion * Dew point corrosion * Fireside corrosion * Welding defects

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 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

This book illustrates and explains virtually all common failure modes

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which adversely affect boiler reliability. Each failure mode is well illustrated with case histories. The corrective steps necessary to reduce or eliminate each failure type, as well as precautionary notes, are provided. The book is a comprehensive, authoritative field guide for the identification and elimination of boiler failures. Boilers of virtually all pressures and many construction designs are presented.

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.

Through a practical and international approach, this comprehensive reference addresses modern theory, practice, management, purchasing, and marketing of cooling water systems.

"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 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."

Practical, up-to-date techniques for identifying and eliminating common causes of boiler failure Filled with more than 200 color images, The Nalco Guide to Boiler Failure Analysis, Second Edition categorizes distinct failure modes that typify nearly all boiler problems and walks you, step by step, through their solutions. Each type of failure is classified according to its location, general description, critical factors, identification, elimination, cautions, and related problems. Real-world case histories are included throughout. This authoritative resource contains new chapters on: Phosphate corrosion Stress-assisted corrosion Steam and condensate damage Flow-accelerated corrosion Comprehensive coverage includes: Water- and steam-formed deposits * Short- and long-term overheating * Caustic corrosion * Low-pH corrosion * Hydrogen damage * Chelant complexing * Oxygen corrosion * Corrosion during cleaning * Corrosion fatigue cracking * Stress corrosion cracking * Graphitic corrosion * Dealloying * Cavitation * Erosion * Waterwall fireside corrosion * High-temperature furnace corrosion * Cold-end corrosion * Dew point corrosion * Fireside corrosion * Welding defects

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This book provides a reference to analysis techniques of common cooling water system problems and a historical perspective on solutions to chronic cooling water system problems, such as corrosion and biofouling. It covers best design practices for cooling water systems that are required to support the operation of all electric power plants. Plant engineers will gain better understanding of the practical issues associated with their cooling water systems and new designs or modifications of their systems should consider the actual challenges to the systems. The book is intended for graduate students and practicing engineers working in both nuclear and fossil power plants and industrial facilities that use large amounts of cooling water.

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