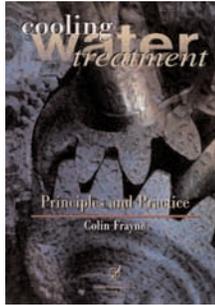


WATER TECHNOLOGY & WATER TREATMENT



COOLING WATER TREATMENT: PRINCIPLES AND PRACTICE

COLIN FRAYNE

512 pages, Illustrations

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ISBN 978-0-8206-0370-4

This comprehensive book is the only one that addresses theory, practice, management, purchasing and marketing of cooling water systems in one volume.

The approach of this essential reference is practical and international, and it is based on 30 years of professional experience.

Profusely illustrated, this handbook will enable professionals to understand the factors that may interfere and compromise the optimal functioning of cooling water systems, used in every industrial and commercial premise in the world (e.g., industrial plants, large office towers; hospitals, hotels, etc.).

Maintenance of cooling water systems is based on specialty chemicals, and this invaluable handbook contains information on chemical formulations and programming, considered “taboo” and never published before.

Scaling, corrosion, micro-biological deposits, among others, interfere with the transfer of heat, a key element to achieve a cost-effective operation of cooling water systems, examined in chapters on Cooling System & Heat Exchange Essentials; Make-Up Water Sources & Their Impurities; and Corrosion, Fouling & Deposition.

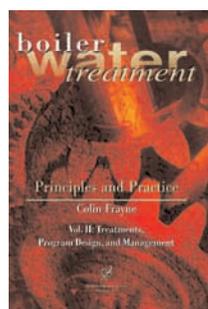
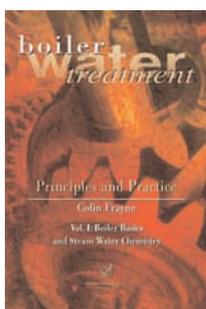
Different treatments, pre-treatment equipment, devices; application of different chemicals; and computer software programs are analyzed in the chapters on Chemical Treatments & Programs for Cooling Water Systems; and Microbiological Control Programs.

Specially important to decision-makers, water treatment field personnel, and cooling water systems marketing personnel are the chapters on Buying and Selling Cooling Water Programs; Surveys, Inspections and Cooling Water Program Selection.

The chapters on Managing Cooling Systems and Monitoring and Control, address the importance of improving and maintaining the quality of the cooling water systems process and of optimizing operating costs.

An indispensable source for: Chemical, Plant, Maintenance, Operations, Process and Utility Services Engineers; specialty chemicals companies personnel and cooling water systems marketing personnel.

CONTENTS: Cooling System & Heat Exchange Essentials; Make-up Water Sources & their Impurities; Make-up Water Pre-Treatment Processes; Corrosion, Fouling & Deposition; Chemical Treatments & Programs for Cooling Water; Micro-biological Control Programs; Buying and Selling Cooling Water Programs; Surveys, Inspections & Cooling Water Program Selection; Managing Cooling Water Programs; Monitoring & Control; Appendix 1: Useful Data; Appendix 2. Glossary of Terms; Appendix 3. Summary of Charts & Notes for Field Use; References; Index.



BOILER WATER TREATMENT: PRINCIPLES AND PRACTICE

COLIN FRAYNE

pages, 400 (Vol 1), 548 (Vol 2)

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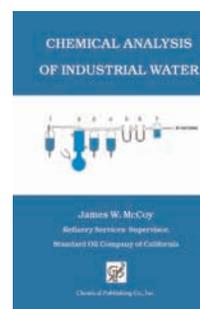
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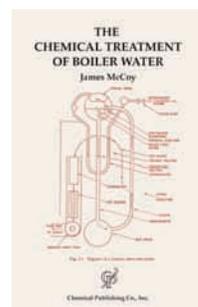
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Those involved in the design, operation, or maintenance of industrial boilers will find this book an invaluable source of information. First the author discusses the relationship between boilers and the generated steam. The prevention of scaling, corrosion, stress corrosion cracking, and steam contamination are fully explored followed by an in-depth examination of the chemical treatments necessary to implement preventative measures. Specific types of boilers are discussed, water treatment programs and operating guidelines are outlined. Finally, step-by-step procedures are given for testing boiler water for the various contaminants. The clarity and accuracy of presentation allows this book to function as a manual as well as a text.

CONTENTS: Principles of Steam Generation; Objectives in Treating Water for Boilers; Physical methods for Improving Water Quality; External Chemical Treatments; Internal Chemical Treatments; Operating Procedures; Complications in the Operation of Boilers: Analytical Methods; Appendix.



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This standard reference serves the industrial community as an authoritative source on cooling water problems. The problems of corrosion measurement and control are intensively examined and the more recently developed cooling water additives are reviewed. Advances in treatment chemicals and chemical cleaning are thoroughly explored:

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McCoy's guide to the maintenance and management of cooling water systems and the bacteria that live in them. Includes studies and testing of microbicides and other microorganisms that infest recirculating cooling water systems and factors influencing their health and growth. Tests biological oxidation processes as a way of reusing treated effluents as an important method of water conservation in the petroleum refining and chemical processing industries. Explores practical methods for controlling microorganisms in cooling water; including working with chlorine dioxide as a microbicide. Methods are given for identifying and evaluating toxicants and bacteria that lead to fouling and staining of cooling water systems.

PARTIAL CONTENTS: Classification and Structure of Most Common Microorganisms; Effects of Microorganisms; Control of Microorganisms; Application of Microbicides; Reclaimed Water; Methods of Analysis.



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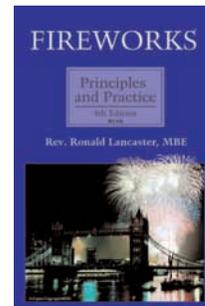
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Begins with a brief review of the origins and early history of cooling towers and finally brings together the variety of terms in the industry into a uniform system of terminology. Facts accumulated as a result of laboratory testing together with full-scale tests in the field provide the basis for the methods described in the book. Provides easy to use combination of steps in which to incorporate the Merkel theory. English-American units of measure are used in the examples with metric equivalents shown in parentheses. Appendices contain tables of appropriate constants and conversion factors for use with SI (le Systeme International d'Unites). This guide is of great benefit to cooling tower users, operators and plant designers.

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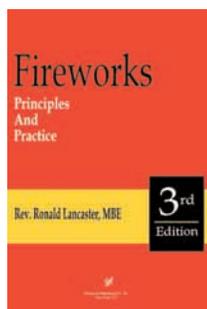
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All the chapters from the previous edition have been revised and enlarged to include in most cases new fireworks formats. Four new chapters have been added to this 3rd Edition:

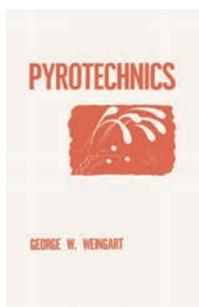
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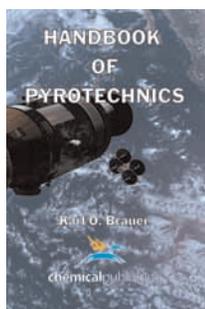
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HERBERT ELLERN
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KARL O. BRAUER

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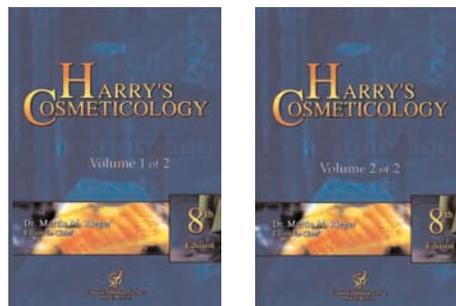
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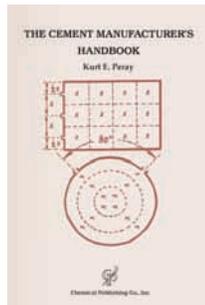
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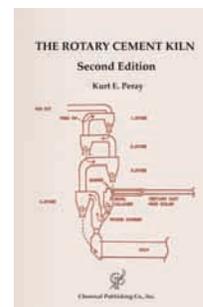
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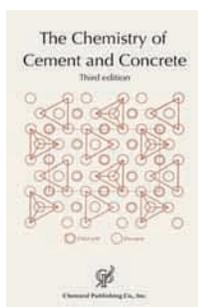
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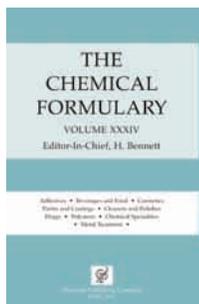
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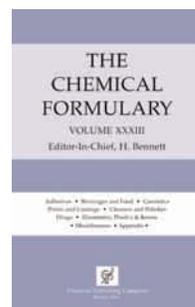
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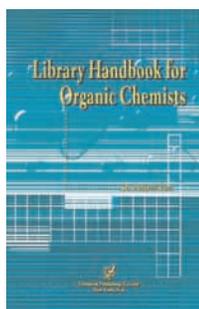
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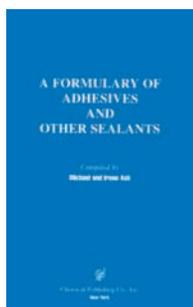
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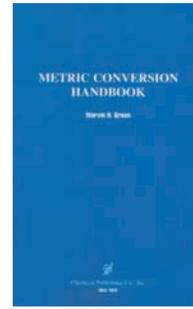
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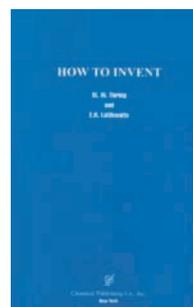
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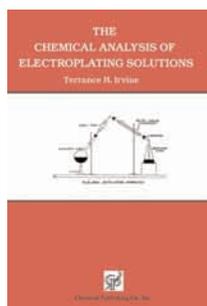
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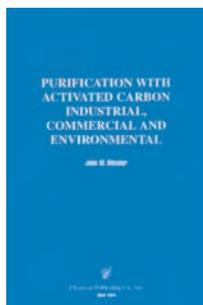
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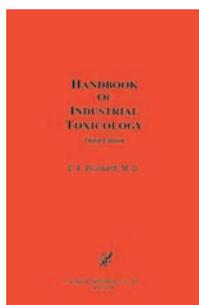
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FOOD



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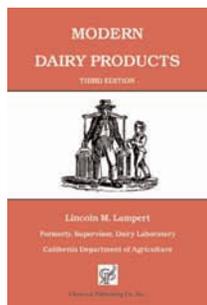
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The second edition of this popular formulary contains the entire spectrum of confectionery and chocolate products. New formulas as well as formulas for low-calorie candy have been added to reflect consumers' changing preferences. Additional chapters deal with Hazard Analysis Critical Control Point (HACCP), U.S. Labeling Laws, Storage and Color Addition. Formulas are presented in a clear and precise manner, including the ingredients for their manufacture and the step-by-step procedure.

Mr. Harris is a former U.S. Army Natick Research at the Development & Engineering Center. Mr. Crespo is a Vice President-Technical Emeritus for Wilbur Chocolate Co.

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These books are an excellent reference source for those who need to understand spices. Vol. I covers the history of spices from ancient times to the modern world, description of spices, as well as an outline of trends in the spice industry. An Appendix, in alphabetical order, details the origins and nature of the spices described and additional information on essential oils of the spices. Glossary. Vol. II describes the morphology and histology of spices as well as their chemical composition.

Boiler water treatment is now an energy management function. And while the business and practice of this industry may be well over 100 years old, it remains a vitally important function and is a cornerstone of the global industrial services market. Copyrighted Materials. Copyright. It follows a similar style and with similar objectives and outlook to Cooling Water Treatment: Principles and Practice, which was published in early 2000. In the preface to that book, I stated that "the vital key to successfully providing water treatment programs today is something it has always been-excellent customer service!" At the same time, water quality regulations have become more rigorous, analytical capabilities for detecting contaminants have become more sensitive, and the general public has become both more knowledgeable and more discriminating about water MWH's Water Treatment: Principles and Design, Third Edition 1 John C. Crittenden, R. Rhodes Trussell, David W. Hand, Kerry J. Howe and George Tchobanoglous Copyright © 2012 John. The evolution of water treatment practice has a rich history of empirical and scientific. In the Sanskrit Ousruta Sanghita it is noted that "impure water should be purified by being boiled over a fire, or being heated in the sun, or by dipping a heated iron into it, or it may be purified by filtration through sand and coarse gravel and then allowed to cool." An overview of industrial water treatment methods and techniques, by the Drew Chemical Corporation. Chapter 1: introduction to water and its impurities Chapter 2: external water treatment processes Chapter 3: cooling water corrosion control Chapter 4: cooling water deposit control Chapter 5: microbiological control Chapter 6: industrial cooling water systems cleaning methods Chapter 7: open evaporative systems Chapter 8: once-through systems Chapter 9: closed systems Chapter 10: steam generation Chapter 11: corrosion inhibition in steam generating. Provides the reader with state-of-the-art information on water treatment topics. The authors managed to present the principles upon which various industrial water treatment practises are based, in an understandable fashion.