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water  
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Principles and Practice

Colin Frayne

**CHARTS AND NOTES  
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# Boiler Water Treatment Principles And Practice Charts And

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## **Boiler Water Treatment Principles And Practice Charts And:**

**Boiler Water Treatment: Principles and Practice** Colin Frayne, 2002 BOILER WATER TREATMENT PRINCIPLES AND PRACTICE VOLUME 1 of Two Volumes by COLIN FRAYNE Vol I Boiler Basics and Steam Water Chemistry ISBN 0 8206 0371 6 This comprehensive reference is the most practical field guide ever written on steam and boiler water treatment In this two volume handbook Colin Frayne Cooling Water Treatment Principles and Practice also by Chemical Publishing analyzes the whole spectrum of boiler systems including those used in residential complexes commercial and institutional buildings and industrial facilities The breadth of the book covers All types of boilers plants from small cast iron units to large utility and nuclear power plants Boiler subsystems appurtenances and auxiliaries Boiler maintenance and troubleshooting fuel treatments combustion gas analysis pre treatment processes chemicals and operational management Historical and modern program design and control in accordance with international standards Introduction The Function of Boiler Water Treatment and Its Marketing Steam Generation Boiler Types and Applications Boiler Plant Subsystems Appurtenances and Auxiliaries Waterside and Steamside Problems The Basics Waterside and Steamside Problems Hot Water Heating and Low Pressure Steam Boiler Waterside and Steamside Problems Pre Boiler Section Specifics Waterside and Steamside Problems Boiler Section Specifics Waterside and Steamside Problems Post Boiler Section Specifics Pre Boiler and Post Boiler Treatment Processes Internal Treatment Programs Adjuncts and Conjunctional Treatments Control of Boiler Water Chemistry Operational Control of Waterside Surfaces Control of Fireside Conditions and Surfaces Appendix I Useful Data Appendix II Glossary Bibliography Index This book is Volume 1 of a 2 Volume set Other titles by author Colin Frayne Cooling Water Treatment Principles and Practice ISBN 978 0 8206 0370 4 Cooling Water Treatment Principles and Practices Charts and Notes For Field Use ISBN 978 0 8206 0003 1

**Boiler Water Treatment Principles and Practice** Colin Frayne, 2013 Table of Contents About the Author Saturated steam temperatures at various boiler pressures Boiler Energy and Power Units Typical gross heating values of common fuels based on approximately 80% fuel to steam efficiency Typical energy consumption and output ratings for a fire tube boiler Steam tables suitable for pressure deaerators Calculating Blowdown Coefficients of thermal conductivity for some heat exchanger metals and boiler deposits Types of water or steam commonly employed in most HW heating and steam generating plants Commonly occurring minerals in natural MU water sources Specific waterside steamside problems affecting MPHw and HPHw boiler plants Salt concentration indicators Summary of waterside steamside problems affecting LPHw and LP steam heating boiler plants FW contamination from MU water FW contamination from returned condensate Problems associated with the final FW blend Deposition of boiler section waterside surfaces by alkaline earth metal salts other inorganic salts and organics Silica and silicate crystalline scales and deposits affecting boiler section waterside surfaces Iron oxide and other boiler section corrosion debris deposits Boiler section corrosion problems involving oxygen concentration cells and low pH Stress and high temperature related corrosion Steam

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