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| Nota di contenuto | Front cover; Contents; Preface; Editor; Contributors; Chapter 1. Mineral Scales and Deposits: An Overview; Chapter 2. Crystal Growth Inhibition of Calcium Sulfate and Calcium Oxalates in Aqueous Systems; Chapter 3. Calcium Carbonate Scale Control in Industrial Water Systems; Chapter 4. Calcium Carbonate: Polymorph Stabilization in the Presence of Inhibitors; Chapter 5. Scale and Deposit Control Polymers for Industrial Water Treatment; Chapter 6. New Models for Calcium Phosphate Scale Formation and Dissolution; Chapter 7. Design and Applications of Cooling Water Treatment Programs Chapter 8 Latest Developments in Oil Field Scale ControlChapter 9. Control of Silica Scaling in Geothermal Systems Using Silica Inhibitors, Chemical Treatment, and Process Engineering; Chapter 10 Recent Developments in Controlling Silica and Magnesium Silicate Foulants in Industrial Water Systems; Chapter 11 Phosphate-Containing Scale Formation in Wastewater; Chapter 12. New Developments in Membrane-Based Processes for Industrial Applications; Chapter 13. Reverse Osmosis Membrane Fouling Control; Chapter 14. Scale Formation and Control in Thermal Desalination Systems Chapter 15. Boiler Water TreatmentChapter 16. Corrosion Control in Industrial Water Systems; Chapter 17. Interactions of Polyelectrolytes with Particulate Matter in Aqueous Systems; Chapter 18. Mechanistic |

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Sommario/riassunto

Mineral scale deposits, corrosion, suspended matter, and microbiological growth are factors that must be controlled in industrial water systems. Research on understanding the mechanisms of these problems has attracted considerable attention in the past three decades as has progress concerning water treatment additives to ameliorate these concerns. The Science and Technology of Industrial Water Treatment provides a comprehensive discussion on the topic from specialists in industry and academia. The book begins with an overview of water chemistry and cover
