

1. Record Nr.	UNINA9910458911003321
Titolo	The science and technology of industrial water treatment // edited by Zahid Amjad
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press London : , : IWA Pub., , 2010
ISBN	0-429-13180-1 1-4200-7145-9
Descrizione fisica	1 online resource (532 p.)
Altri autori (Persone)	AmjadZahid
Disciplina	628.4/3
Soggetti	Factory and trade waste - Purification Water - Purification Sewage - Purification Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A CRC title."
Nota di bibliografia	Includes bibliographical references and index.
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 Aspects of Heat Exchanger and Membrane Biofouling and Prevention; Chapter 19. Biocides: Selection and Application; Chapter 20. Legionella in Water Systems; Chapter 21. Analytical Techniques for Identifying Mineral Scales and Deposits; Chapter 22. Deposit Control Polymers: Types, Characterization, and Applications; Chapter 23. Applications of Cationic Polymers in Water Treatment
Chapter 24. Recent Development in Water Treatment Chemicals
MonitoringIndex; Back cover

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
