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Sommario/riassunto

This comprehensive guide explores the principles, design, and applications of industrial scale inhibition. Edited by Ibrahim Yahia Yaagoob and Chandrabhan Verma, the book delves into the fundamentals of scale formation and the mechanisms of antiscalants. It covers a wide range of topics including traditional and eco-friendly antiscalants, the impact of various electrolytes, and the relative performance of different scale inhibition alternatives. The book also examines the role of organic compounds, plant extracts, copolymers, polymers, and nanomaterials in scale inhibition. Aimed at professionals and researchers in the fields of chemistry and chemical engineering, it provides insights into recent advancements and experimental approaches in the industry. The text is supported by contributions from experts worldwide, making it a valuable resource for understanding and addressing scale-related challenges in industrial systems.