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## Electrochemical Water Treatment Methods: Fundamentals, Methods and Full Scale Applications

By Mika Sillanpää

Butterworth-Heinemann. Paperback. Condition: New. 316 pages. Electrochemical Methods for Water Treatment covers all traditional, emerging and combined methods currently available for treatment of surface, drinkable water as well as industrial wastewater. In the first chapter the authors provide an overview of pollutants and treatment methods, followed by an extended introduction to electrochemical processes in water treatment. In chapter two the most usual methods are covered, including: Electrochemical oxidation (including electrodesinfection); Electrochemical reduction; Electrocoagulation; Electroflotation; Electrodialysis. In chapter three the emerging and combined methods are presented, including: Electrodeionization; Capacitative deionization; Electro-Fenton methods; Microbial fuel cells; Photoelectrocatalysis, and Sonoelectrocatalysis. Chapter four concludes the book discussing the available equipment necessary to scale up the operation of all the methods. Electrochemical technologies have many common issues in terms of design, operation and performance. This book brings a wealth of information no all different methods together in a single source to provide a broad insight, and enable the connection between challenges and opportunities for different methods. The combination of technical information, design and case studies offered helps researchers understand the challenges associated with scale up and implementation, while this combination is invaluable for practitioners. Covers all EC methods for water treatment Methods include treatment of surface,...



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