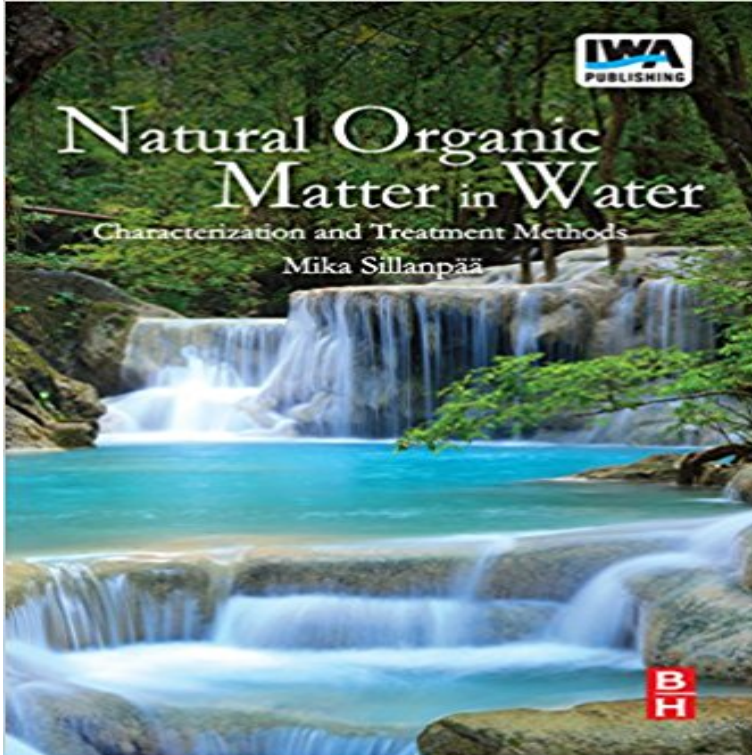


# Natural Organic Matter in Water: Characterization and Treatment Methods



An essential resource containing the latest breakthroughs in the characterization, treatment and removal of Natural Organic Matter (NOM) from drinking water, *Natural Organic Matter in Waters: Characterization and Treatment Methods* focuses on advanced filtration and treatment options, and processes for reducing disinfection by-products. Based on the authors' years of research and field experience, this book begins with the characterization of NOM including: general parameters, isolation and concentration, fractionation, composition and structural analysis and biological testing. This is followed by removal methods such as inorganic coagulants, polyelectrolytes and composite coagulants. Electrochemical and membranes removal methods such as: electrocoagulation, electrochemical oxidation, microfiltration and ultrafiltration, nanofiltration and membrane fouling. This book covers conventional as well as advanced NOM removal methods, includes characterization methods of NOM, and explains removal methods such as: removal by coagulation, electrochemical, advanced oxidation, and integrated methods. The book provides researchers with a discussion of NOM removal by advanced oxidation processes, adsorption and ion exchange. In addition, engineers and researchers will find *Natural Organic Matter in Waters: Characterization and Treatment Methods* a valuable guide for integrating methods, processes and technologies to achieve the desired effect. Co-Published with Elsevier/Butterworth-Heinemann Author: Mika Sillanpää, Head of the Laboratory at Lappeenranta University of Technology, Finland

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