



Natural Organic Matter in Water: Characterization and Treatment Methods (Advances in Librarianship (Seminar))

Mika Sillanpää

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Approximately 77 percent of the freshwater used in the United States comes from surface-water sources and is subject to natural organic matter contamination according to the United States Geological Survey. This presents a distinct challenge to water treatment engineers. An essential resource to 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 advance filtration and treatment options, and processes for reducing disinfection byproducts. Based on the author's 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.

- Covers conventional as well as advanced NOM removal methods
- Includes characterization methods of NOM
- Explains removal methods such as: removal by coagulation, electrochemical, advanced oxidation, and integrated methods

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