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Bioluminescence AOC Method""; ""2.6.1 Bioluminescence AOC assay""; ""2.6.2 Application of the bioluminescence AOC assay""; ""2.6.3 Development of a salt water bioluminescence AOC test""; ""2.7 Conclusions""; ""2.8 References""; ""Chapter 3: Removal of organic matter in water treatment systems a€? Case studies in Japan""; ""3.1 Introduction""; ""3.2 Advanced Water Purification System in Osaka Water Works""; ""3.2.1 Reduction of chlorine dosage""
""3.2.2 Bacterial-regrowth control by AOC reduction and less chlorine dosage""""""3.3 Organic Removals in a Hybrid Membrane Filtration System""; ""3.3.1 PVDF MF membrane filtration coupled with pre-ozonation""; ""3.3.2 PTFE MF membrane filtration coupled with powdered activated carbon adsorption and biological/chemical oxidation""; ""3.3.3 Biofilm-membrane reactor for advanced drinking water treatment""; ""3.4 Conclusion""; ""3.5 References""; ""Chapter 4: Organic matter, pipe materials, disinfectants and biofilms in distribution systems""; ""4.1 Introduction""
""4.1.1 Organic matter and heterotrophic bacterial growth""""""4.1.2 Disinfectans, NOM and microbial growth""; ""4.1.2.1 Primary disinfection""; ""4.1.2.2 Secondary disinfection""; ""4.1.3 Pipe materials""; ""4.2 Interactions of Factors and Biofilm Growth""; ""4.2.1 Importance of organic carbon and chlorine on biofilms""; ""4.2.2 Importance of iron-corrosion products""; ""4.2.3 Iron, organics and disinfectants""; ""4.2.4 Iron, organics, disinfectants and corrosion control""; ""4.2.4.1 Corrosion products and iron oxide coated beads""; ""4.2.4.2 Laboratory and pilot distribution system studies""
""4.3 Conclusions and Recommendations""

Sommario/riassunto

Maintaining the microbial quality in distribution systems and connected installations remains a challenge for the water supply companies all over the world, despite many years of research. This book identifies the main concerns and knowledge gaps related to regrowth and stimulates cooperation in future research. Microbial Growth in Drinking Water Supplies provides an overview of the regrowth issue in different countries and the water quality problems related to regrowth. The book assesses the causes of regrowth in drinking water and the prevention of regrowth by water treatment and distribution. Editors: Dirk van der Kooij and Paul W.J.J. van der Wielen, KWR Watercycle Research Institute, The Netherlands.

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