



An Innovative Role of Biofiltration in Wastewater Treatment Plants (WWTPs)

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Description

Many physico-chemical and operational factors influence the performance, treatment costs and long-term stability of biofilters for the treatment of wastewater. An Innovative Role of Biofiltration in Wastewater Treatment Plants focuses on identifying the factors that affect biofiltration, such as the hydraulic retention time of the biofiltration system, the type and characteristics of the filter and the attached biomass, explains their influence and provides guidelines on how to control these factors to optimize better operation with respect to pollutant control present in wastewater treatment plants (WWTPs). The fundamental basis of treatment in biofilters is the action of pollutant-degrading microorganisms and consequently the book also discusses in depth about the microbial ecology of biofiltration. In addition, it explores the applications of biofiltration including the removal of emerging pollutants.

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Chapter 3 - Removal of volatile organic compounds and heavy metals through the biological-based process

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Abstract

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