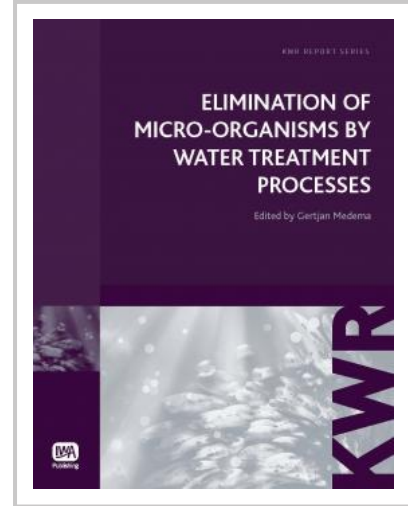


Elimination of Micro-organisms by Water Treatment Processes

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The overall aim of **Elimination of Micro-organisms by Water Treatment Processes** is to present default values for the micro-organisms elimination or inactivation credit of universally used processes in water treatment (MEC or MIC). The growing interest in Quantitative Microbial Risk assessment (QMRA) for safe drinking water requires such data. These MEC or MIC values have been calculated from research on elimination of viruses, bacteria and bacterial spores and protozoa (oo)cysts (Cryptosporidium and Giardia) by these treatment processes published in the international literature. The data have been selected on the base of different quality criteria related to information on applied experimental conditions and used methods. Furthermore the studies have been categorized on base of their similarities with 'real world' conditions (selected micro-organisms, scale and conditions of the tested processes).



The international literature data revealed a high variation in elimination. The major parameters and process control parameters affecting elimination are described.

This new edition describes the state-of-the-art progress in research on conventional treatment, coagulation and flocculation, rapid granular filtration, slow sand filtration and UV disinfection.

Contents

Introduction; Data collection and evaluation methods; Conventional treatment; Coagulation and flocculation; Rapid granular filtration; Slow sand filtration; Disinfection processes: UV-disinfection; Overall MEC-matrix for drinking water processes and further research; Literature.

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