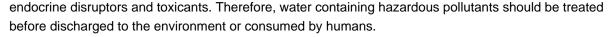


Hazardous Pollutants in Biological Treatment Systems: Fundamentals and a Guide to Experimental Research

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Hazardous pollutants are a growing concern in treatment engineering. In the past, biological treatment was mainly used for the removal of bulk organic matter and the nutrients nitrogen and phosphorus. However, relatively recently the issue of hazardous pollutants, which are present at very low concentrations in wastewaters and waters but are very harmful to both ecosystems and humans, is becoming increasingly important. Today, treatment of hazardous pollutants in the water environment becomes a challenge as the water quality standards become stricter. Hazardous Pollutants in Biological Treatment Systems focuses entirely on the hazardous pollutants present in wastewater and water and gives an elaborate insight into their fate and effects during biological treatment.

Currently, in commercial and industrial products and processes, thousands of chemicals are used that reach water. Many of those chemicals are carcinogens, mutagens,



This book first addresses the characteristics, occurrence and origin of hazardous organic and inorganic pollutants. Then, it concentrates on the fate and effects of these pollutants in biological wastewater and drinking water treatment units. It also provides details about analysis of hazardous pollutants, experimental methodologies, computational tools used to assist experiments, evaluation of experimental data and examination of microbial ecology by molecular microbiology and genetic tools.

Hazardous Pollutants in Biological Treatment Systems is an essential resource to the researcher or the practitioner who is already involved with hazardous pollutants and biological processes or intending to do so. The text will also be useful for professionals working in the field of water and wastewater treatment.



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