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 505 0 \$a Scope of the Book Wastewater Reuse and Current Challenges -- New challenges for the analytical evaluation of reclaimed water and reuse applications -- Bioassays currently available for evaluating the biological potency of pharmaceuticals in treated wastewater -- Bioavailability and uptake of organic micropollutants during crop irrigation with reclaimed wastewater: Introduction to current issues and research needs -- Irrigation with treated wastewater: Potential impacts on microbial function and diversity in agricultural soils -- Antibiotic resistance elements in wastewater treatment plants: scope and potential impacts -- Safe drinking water?- Effect of wastewater inputs and source water impairment and implications for water reuse -- Wastewater use in agriculture and relevance of micropollutants in North African countries -- Design of water recovery system with process integration -- Water reuse within the paper industry -- Reusing landfill leachate within the framework of a proper management of municipal landfills.
 520 \$a This volume discusses the current challenges related to the reuse of wastewater. It reviews the analytical methodologies for evaluating emerging contaminants and their transformation products, the sensitivity of various bioassays for assessing the biological effects of treated wastewater, and the bioavailability and uptake of organic contaminants during crop irrigation. It describes in detail the physicochemical and microbiological alterations in soil resulting from irrigation with treated urban wastewater, and discusses our current understanding of antibiotic resistance in wastewater treatment plants and in downstream environments. The book also includes an analysis of the effect of wastewater entering drinking water sources and production, and provides updated information on wastewater reuse for irrigation in North Africa. It presents an important integration tool for water recovery, known as water pinch analysis, and finally showcases two other examples of reuse â€“ one in the paper industry and one in landfill management. It is of interest to experts from various fields of research, including analytical and environmental chemistry, toxicology and environmental and sanitary engineering.
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 650 0\$a Water quality.
 650 0\$a Water pollution.
 650 0\$a Analytical chemistry.

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