

Nanotechnology in Water and Wastewater Treatment: Theory and Applications

(Book)

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Abstract

Nanotechnology in Water and Waste Water Treatment: Theory and Applications explores the unique physicochemical and surface properties of nanoparticles and highlights the advantages they provide for engineering applications. Applications covered include the generation of fresh water from surface water and seawater, the prevention of the contamination of the environment, and the creation of effective and efficient methods for remediation of polluted waters. Each chapter covers a different nanotechnology-based approach and examines the basic principles, practical applications, recent breakthroughs and associated limitations. This book is ideal for researchers and professionals in the fields of nanotechnology, water treatment and desalination. In addition, it is also ideal for postgraduate students, industry and government professionals, managers and policymakers. © 2019 Elsevier Inc. All rights reserved.

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