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Water is a vital element for life. Each recognised form of life on earth, from the smallest microbes to the largest mammals, rely on water. But the amount of fresh water on the earth is limited. Due to industrialisation, urbanisation, and rapid growth of population; even this small amount of fresh water is compromised. Various types of inorganic (toxic and heavy metals) and organic pollutants (dyes, pesticides and pharmacological) are continuously polluting the ecosystem. The development of new efficient

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processes will be discussed in a unified and comprehensive approach. There will be extensive cross-referencing within all volumes. The use of solar energy during various catalytic chemical processes for the production of an array of chemical products is the theme of this volume. Photocatalysis is a topic of increasing importance due to its essential role in many of today's environmental and energy source problems. The use of solar energy for catalytic reactions results in a carbon dioxide-neutral process. All photocatalytic processes and the future developments in this area are discussed, including an economic analysis of the various processes. Offers in-depth coverage of all catalytic topics of current interest and outlines future challenges and research areas A clear and visual

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description of all parameters and conditions, enabling the reader to draw conclusions for a particular case

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Interest in ozonation for drinking water and wastewater treatment has soared in recent years due to ozone's potency as a disinfectant, and the increasing need to control disinfection byproducts that arise from the chlorination of water and wastewater. Ozone

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