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Sommario/riassunto

Although a host of works have been done in the development of photocatalysts and photoreactors, there are still some challenges limiting the extensive application of the technology at large scale. Thus, this book contributes to identifying the most critical issues and challenges that limit the use of these processes in planning, design and operation of modern water and wastewater treatment facilities. Thorough understanding of the fundamentals of Advanced Oxidation

Processes (AOPs) and photochemistry as well as its application to AOPs for the removal of contaminants or the detoxification of contaminated waters may lead to acquire in-depth knowledge that can be used to devise and design effective AOP treatment systems to meet not only current, but also anticipated regulatory requirements and enhance the independent learning and critical thinking skills. This book invigorates the next step in AOP that will depart from bench scale approach towards implementation of sustainable techniques to enhance the performance of the wastewater treatment processes for the eradication of merging and ubiquitous pollutants
