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Titolo	Water Pollution and Water Quality Control of Selected Chinese Reservoir Basins / / edited by Tinglin Huang
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Descrizione fisica	1 online resource (XIV, 514 p. 292 illus., 126 illus. in color.)
Collana	The Handbook of Environmental Chemistry, , 1867-979X ; ; 38
Disciplina	363.73940951
Soggetti	Environmental chemistry Water quality Water pollution Analytical chemistry Geochemistry Environmental Chemistry Water Quality/Water Pollution Analytical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Brief introduction to selected Chinese reservoirs -- Characteristics of water pollution in typical reservoirs -- Typical reservoir pollution source analysis -- The protection of Chinese water reservoirs -- Overview of reservoir sediment contamination -- Characteristics of pollutants release from reservoir sediments -- Impact of contaminated sediments on water quality of typical reservoirs -- Methods of reservoir water pollution control and water quality improvement -- Water quality improvement using water-lifting aeration technology -- Application of the water-lifting aerators in reservoirs -- Water quality improvement by the Water-lifting aerators -- Functional microbial composition -- Screening and cultivation of oligotrophic aerobic denitrifying bacteria -- Effect and ecological assessment of microbial remediation.
Sommario/riassunto	This volume provides a detailed overview of water pollution and control of several selected Chinese reservoirs. It explores sediment contamination as well as algal blooms and their impact on water

quality. Several chapters also discuss various methods of quality control, such as mixing-oxygenation combined with microbial remediation technologies. Due to their broad geographical distribution and different nutrition levels, the investigated reservoirs, the Jinpen, Shibianyu, Fenhe, Zhelin and Zhoucun reservoirs, can be regarded as representative for China. This comprehensive work will appeal to researchers, advanced students and reservoir managers.