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Titolo	Recent Technologies and Challenges in Water Remediation : Select Proceedings of the 3rd International Conference on Water Technologies (ICWT 2023) / / edited by Shobha Shukla, Sumit Saxena, Prasanna Kumar S. Mural
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Descrizione fisica	1 online resource (VII, 257 p. 124 illus., 113 illus. in color.)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 581
Disciplina	628
Soggetti	Environmental engineering Civil engineering Environmental protection Water Hydrology Environmental Civil Engineering Soil and Water Protection
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Nanotechnology for Water Purification -- Process (Physicochemical, biochemical, and bioremediation) -- Treatment technologies -- Sensors -- Rural Technologies and challenges -- Other Topics in Water Technologies.
Sommario/riassunto	This book aims to be a collection of various technologies for water remediation. The rapid population growth, deforestation, urbanization, depleting surface/ groundwater resources, and global warming led to diminishing water resources worldwide. The key focus is on sensors, AI, ML, mapping, management, etc. for improving the performance, efficiency, and life of the processes. Further, it focuses on nanotechnology, treatment technologies in rural areas, and their challenges. The proposed book highlights various aspects of recent advances occurring in sensors which are novel and assist readers in gaining a new perspective in implementing designs for water treatment and conservation. Cost-effective and eco-friendly biochar for removal

of hazardous materials from industrial effluents will also be explored. The proposed book contains various technologies that may play a pivotal role in the future direction of water treatment.