1. Record Nr. UNINA9910337884903321

Titolo	Urban Stormwater and Flood Management : Enhancing the Liveability of Cities / / edited by Veeriah Jegatheesan, Ashantha Goonetilleke, John van Leeuwen, Jaya Kandasamy, Doug Warner, Baden Myers, Muhammed Bhuiyan, Kevin Spence, Geoffrey Parker
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-11818-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (208 pages)
Collana	Applied Environmental Science and Engineering for a Sustainable Future, , 2570-2165
Disciplina	628.21
Soggetti	Water - Pollution Water quality Environmental management Environmental health Hydrology Climatic changes Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution Water Quality/Water Pollution Water Policy/Water Governance/Water Management Water and Health Hydrology/Water Resources Climate Change
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction to urban stormwater – A global perspective -- 2. Stormwater harvesting and flood mitigation – A UK perspective -- 3. Urban Water Quality -- 4. Water Sensitive Urban Design (WSUD) -- 5. Recycling and treatment of water under urban intensification -- 6. Storm Water Harvesting -- 7. Urban Stormwater & Flood Management -- 8. Biodiversity and ecosystem services in relation to the management of stormwater and the mitigation of floods.

Sommario/riassunto

This book brings together the experiences of engineers and scientists from Australia and the United Kingdom providing the current status on the management of stormwater and flooding in urban areas and suggesting ways forward. It forms a basis for the development of a framework for the implementation of integrated and optimised storm water management strategies and aims to mitigate the adverse impacts of the expanding urban water footprint. Among other topics it also features management styles of stormwater and flooding and describes biodiversity and ecosystem services in relation to the management of stormwater and the mitigation of floods. Furthermore, it places an emphasis on sustainable storm water management measures. Population growth, urbanisation and climate change will pose significant challenges to engineers, scientists, medical practitioners, policy makers and practitioners of several other disciplines. If we consider environmental and water engineers, they will have to face challenges in designing smart and efficient water systems which are robust and resilient to overcome shrinking green spaces, increased urban heat islands, damages to natural waterways due to flooding caused by increased stormwater flow. This work provides valuable information for practitioners and students at both senior undergraduate and postgraduate levels.