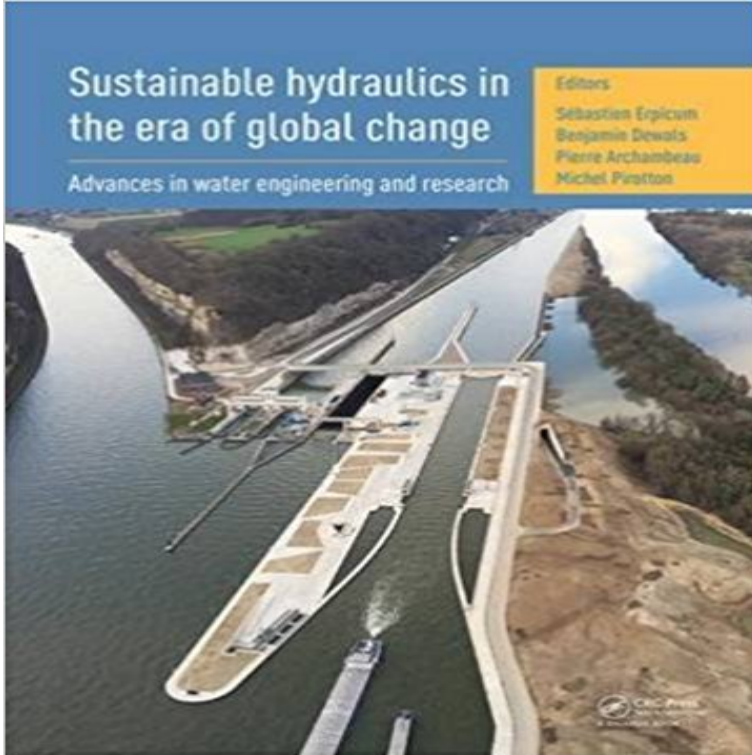


Sustainable Hydraulics in the Era of Global Change: Proceedings of the 4th IAHR Europe Congress (Liege, Belgium, 27-29 July 2016)



In an increasingly urbanized world, water systems must be designed and operated according to innovative standards in terms of climate adaptation, resource efficiency, sustainability and resilience. This grand challenge triggers unprecedented questions for hydro-environment research and engineering. Shifts in paradigms are urgently needed in the way we view (circular) water systems, water as a renewable energy (production and storage), risk management of floods, storms, sea level rise and droughts, as well as their consequences on water quality, morphodynamics (e.g., reservoir sedimentation, scour, sustainability of deltas) and the environment. Addressing these issues requires a deep understanding of basic processes in fluid mechanics, heat and mass transfer, surface and groundwater flow, among others. This book unveils latest research achievements and innovations which were presented at the 4th European Congress of the International Association for Hydro-environment engineering and Research (IAHR), hold in Liege (Belgium). These new developments are based on state-of-the-art modelling technologies which are supported by the exponentially growing availability of data and computation power. Innovative synergies emerge between numerical modelling and experimental techniques, as well as field monitoring. Unique opportunities are created by multi-, inter- and trans-disciplinary approaches, bridging hydro-environment engineering and research with climate sciences, ecology, spatial planning, sociology.. The book will serve as a reference for postgraduate, professionals and decision-makers involved in various water-related sectors, such as hydraulic engineering, fluvial hydraulics, coastal engineering, water resources management, renewable energy and many more.

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