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Data Requirements For Integrated Urban Water Management ...

Modeling of integrated urban water systems (IUWS) has seen a rapid development in recent years. ... This paper discusses the efforts to be able to meet the data requirements associated with integrated modeling and describes the methods applied to validate the monitoring data and to use submodels as software sensor to provide the necessary input ...

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Integrated urban water management relies on data allowing us to analyse, understand and predict the behaviour of the individual water cycle components and their interactions. The concomitant monitoring of the complex of urban water system elements makes it possible to grasp the entirety of relations among the various components of the urban water cycle and so develop a holistic approach to solving urban water problems. Data Requirements for Integrated Urban Water Managements - issuing from UNESCO's International Hydrological Programme project on this topic - is geared towards improving integrated urban water management by providing guidance on the collection, validation, storage, assessment and utilization of the relevant data. The first part of this volume describes general principles for developing a monitoring programme in support of sustainable urban water management. The second part examines in detail the monitoring of individual water cycle components. Two case studies in the final part illustrating attempts to deliver an integrated monitoring system help demonstrate the fundamental principles of sustainable urban water management elaborated here.

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This book is an introduction to hydroinformatics applied to urban water management. It shows how to make the best use of information and communication technologies for manipulating information to manage water in the urban environment. The book covers the acquisition and analysis of data from urban water systems to instantiate mathematical models or calculations, which describe identified physical processes. The models are operated within prescribed management procedures to inform decision makers, who are responsible to recognized stakeholders. The application is to the major components of the urban water environment, namely water supply, treatment and distribution, wastewater and stormwater collection, treatment and impact on receiving waters, and groundwater and urban flooding. Urban Hydroinformatics pays particular attention to modeling, decision support through procedures, economics and management, and implementation in both developed and developing countries. The book is written with post-graduates, researchers and practicing engineers who are involved in urban water management and want to improve the scope and reliability of their systems.

A collection of articles by leading international experts on modeling and control of potable water distribution and sewerage collection systems, focusing on advances in sensors, instrumentation and communications technologies; assessment of sensor reliability, accuracy and fitness; data management including SCADA and GIS; system

Communication across and integration of disciplines in the urban-water sector seems today more imperative than ever before. Water is a strategic and shrinking resource. It is probably the world's most valuable resource and clean water has even been touted as the 'next oil'. Control of water - from access to management - has always been a

A considerable amount of scientific evidence has been collected leading to the conclusion that urban wastewater components should be designed as one integrated system, in order to protect the receiving waters cost-effectively. Moreover, there is a need to optimize the design and operation of the sewerage network and wastewater treatment plant (WwTP) considering the dynamic interactions between them and the receiving waters. This book introduces a method called Model Based Design and Control (MoDeCo) for the optimum design and control of urban wastewater components. The book presents a detailed description of the integration of modelling tools for the sewer, the wastewater treatment plants and the rivers. The complex modelling structure used for the integrated model challenge previous applications of integrated modelling approaches presented in scientific literature. The combination of modelling tools and multi-objective evolutionary algorithms demonstrated in this book represent an excellent tool for designers and managers of urban wastewater infrastructure. This book also presents two alternatives to solve the computing demand of the optimization of integrated systems in practical

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applications: the use of surrogate modelling tools and the use of cloud computer infrastructure for parallel computing.

"This book investigates the role of urban, regional and infrastructure planning in achieving sustainable urban and infrastructure development, providing insights into overcoming the consequences of unsustainable development"--Provided by publisher.

The international journal *Ecohydrology & Hydrobiology* (E&H) has been created to promote the concept of Ecohydrology, which is defined as the study of the functional interrelations between hydrology and biota at the catchment scale. Ecohydrology extends from the molecular level to catchment-scale processes and is based on three principles: □ framework (hydrological principle) - quantification and integration of hydrological and ecological processes at a basin scale; □ target (ecological principle) - necessity of enhancing ecosystem absorbing capacity and ecosystem services; and □ management tool (ecological engineering) □ the use of ecosystem properties for regulation the interplay between hydrology and biota. The journal encourages the submission of manuscripts which adopt an integrative approach to aquatic sciences, explaining ecological and hydrological processes at a river-basin scale or propose practical applications of this knowledge. It will also consider papers in other hydrobiological fields. Especially welcome are papers on regulatory mechanism within biocenosis and the resistance and resilience of freshwater and coastal zones ecosystems. There is no page charge for published papers. All submitted papers, written exclusively in English, should be original works, unpublished and not under consideration for publication elsewhere. All papers are peer-reviewed. The following types of papers are considered for publication in E&H: □ original research papers □ invited or submitted review papers, □ short communications

Growing populations and rising standards of living exert stress on water supply and the quality of drinking water. This book presents aspects of challenges in the management of urban water resources, urban water supply, urban drainage and water bodies, wastewater treatment, security, and reuse. The book presents expert opinions which indicate that the way to deal with the current urban water management dilemmas is by integrated management and innovative delivery of water services.

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