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Global Market for Rainwater Harvesting to Outreach 1.46 Billion By 2031 at 6.3% CAGR, By TMR

Unregulated pumping of groundwater due to rapid urbanisation and population growth has been blamed for the steady sinking of major cities, such as Jakarta in Indonesia. A recent study 1 now shows that ...

Groundwater pumping linked to land subsidence in India's capital

Harvesting rainwater can be a boost to your budget, environment and local infrastructure. It can help reduce stormwater runoff, which can help with flooding and water quality.

EXTENSION CORNER: Harvesting rainwater in barrels carries many advantages

A water conservationist has devised a plan to kill two birds with one stone. He has come up with a solution to address two issues—too much water in monsoon and too little water under the ground. To ...

Mumbai: Water conservationist pushes for rainwater harvesting percolation pits

Indore (Madhya Pradesh): Industries located alongside Sanwer road assured Indore Municipal Corporation (IMC) that they would install rooftop rainwater harvesting systems before May 30. The assurance ...

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An attempt is made to place before students (degree and post-degree) and professionals in the fields of Civil and Agricultural Engineering, Geology and Earth Sciences, this important branch of Hydrosience, i.e., Hydrology. It deals with all phases of the Hydrologic cycle and related opics in a lucid style and in metric system. There is a departure from empiricism, with emphasis on collection of hydrological data, processing and analysis of data, and hydrological design on sound principles and matured judgement. Large number of hydrological design problems are worked out at the end of each article, to illustrate the principles involved and the design procedure. Problems for assignment are given at the end of each chapter, along with objective type and intelligence questions.

Understanding groundwater recharge is essential for successful management of water resources and modeling fluid and contaminant transport within the subsurface. This book provides a critical evaluation of the theory and assumptions that underlie methods for estimating rates of groundwater recharge. Detailed explanations of the methods are provided - allowing readers to apply many of the techniques themselves without needing to consult additional references. Numerous practical examples highlight benefits and limitations of each method. Approximately 900 references allow advanced practitioners to pursue additional information on any method. For the first time, theoretical and practical considerations for selecting and applying methods for estimating groundwater recharge are covered in a single volume with uniform presentation. Hydrogeologists, water-resource specialists, civil and agricultural engineers, earth and environmental scientists and agronomists will benefit from this informative and practical book. It can serve as the primary text for a graduate-level course on groundwater recharge or as an adjunct text for courses on groundwater hydrology or hydrogeology. For the benefit of students and instructors, problem sets of varying difficulty are available at http://wwbrr.cr.usgs.gov/projects/GW_Unsat/Recharge_Book/

Managing climate variability and change remains a key development and food security issue in Bangladesh. Despite significant investments, floods, droughts, and cyclones during the last two decades continue to cause extensive economic damage and impair livelihoods. Climate change will pose additional risks to ongoing efforts to reduce poverty. This book examines the implications of climate change on food security in Bangladesh and identifies adaptation measures in the agriculture sector using a comprehensive integrated framework. First, the most recent science available is used to characterize current climate and hydrology and its potential changes. Second, country-specific survey and biophysical data is used to derive more realistic and accurate agricultural impact functions and simulations. A range of climate risks (i.e. warmer temperatures, higher carbon dioxide concentrations, changing characteristics of floods, droughts and potential sea level rise) is considered to gain a more complete picture of potential agriculture impacts. Third, while estimating changes in production is important, economic responses may to some degree buffer against the physical losses predicted, and an assessment is made of these. Food security is dependent not only on production, but also future food requirements, income levels and commodity prices. Finally, adaptation possibilities are identified for the sector. This book is the first to combine these multiple disciplines and analytical procedures to comprehensively address these impacts. The framework will serve as a useful guide to design policy intervention strategies and investments in adaptation measures.

Arsenic Pollution summarizes the most current research on the distribution and causes of arsenic pollution, its impact on health and agriculture, and solutions by way of water supply, treatment, and water resource management. Provides the first global and interdisciplinary account of arsenic pollution occurrences Integrates geochemistry, hydrology, agriculture, and water supply and treatment for the first time Options are highlighted for developing alternative water sources and methods for arsenic testing and removal Appeals to specialists in one discipline seeking an overview of the work being done in other disciplines

Greywater Reuse examines the features and implications of greywater reuse scientifically, quantitatively, and thoroughly. Based on the authors' extensive studies of treatment facilities in urban and rural environments, development of greywater treatment systems, and research of potential environmental and health risks posed by greywater at different treatment levels, this authoritative text: Describes the chemical, physical, and microbial properties of greywater Covers the treatment and removal of greywater pollutants, providing case studies of common methods Identifies the risks involved in greywater use and proposes regulatory measures to help reduce these risks Reviews the greywater management strategies, policies, and legislation of several different countries Discusses the prevailing public perception and willingness to adopt various uses of greywater Analyzes the economic impact of greywater reuse from both the consumer and national perspectives Greywater Reuse addresses all major aspects related to greywater reuse, making it a valuable resource for a variety of applications.

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India is endowed with varied topographical features, such as high mountains, extensive plateaus, and wide plains traversed by mighty rivers. Divided into four sections this book provides a comprehensive overview of water resources of India. A detailed treatment of all major river basins is provided. This is followed by a discussion on major uses of water in India. Finally, the closing chapters discuss views on water management policy for India.

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This book summarizes the evidence from different African countries about the local impacts of climate change, and how farmers are coping with current climate risks. The different contributors show how agricultural systems in developing countries are affected by climate changes and how communities prepare and adapt to these changes.

Owing to climate change related uncertainties and anticipated population growth, different parts of the developing and the developed world (particularly urban areas) are experiencing water shortages or flooding and security of fit-for-purpose supplies is becoming a major issue. The emphasis on decentralized alternative water supply systems has increased considerably. Most of the information on such systems is either scattered or focuses on large scale reuse with little consideration given to decentralized small to medium scale systems. Alternative Water Supply Systems brings together recent research into the available and innovative options and additionally shares experiences from a wide range of contexts from both developed and developing countries. Alternative Water Supply Systems covers technical, social, financial and institutional aspects associated with decentralized alternative water supply systems. These include systems for greywater recycling, rainwater harvesting, recovery of water through condensation and sewer mining. A number of case studies from the UK, the USA, Australia and the developing world are presented to discuss associated environmental and health implications. The book provides insights into a range of aspects associated with alternative water supply systems and an evidence base (through case studies) on potential water savings and trade-offs. The information organized in the book is aimed at facilitating wider uptake of context specific alternatives at a decentralized scale mainly in urban areas. This book is a key reference for postgraduate level students and researchers interested in environmental engineering, water resources management, urban planning and resource efficiency, water demand management, building service engineering and sustainable architecture. It provides practical insights for water professionals such as systems designers, operators, and decision makers responsible for planning and delivering sustainable water management in urban areas through the implementation of decentralized water recycling. Authors: Fayyaz Ali Memon, Centre for Water Systems, University of Exeter, UK and Sarah Ward, Centre for Water Systems, University of Exeter, UK

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