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Sustainable Water Management Integrated Urban Water Management: Arid and Semi-Arid Regions Water Management in 2020 and Beyond Water Management in Africa and the Middle East Management of Water Resources in Agriculture Water for Food Water for Life Water Management Water Resource Management Issues Sustainable Water Use and Management Water Management in Megacities Oil & Gas Produced Water Management Water Resources and Water Management Water Management and Water Loss Sustainable Water Resources Management Agricultural Water Management Urban Water Management for Future Cities IRRIGATION WATER MANAGEMENT Water Resource Economics and Policy Water Resources and Water Management Governing Integrated Water Resources Management Regional Water System Management Capacity Development for Improved Water Management Water resources management in Afghanistan: The issues and options Pollutants and Water Management Water Resources Water Management and Water Governance Water Resources Management IV Agricultural water management in a water stressed catchment: Lessons from the RIPARWIN Project Water Resources Management Water Resource Management and the Law Handbook of Water Resources Management: Discourses, Concepts and Examples Practices of Irrigation & On-farm Water Management: Volume 2 Water Governance, Policy and Knowledge Transfer Water Resources Current Issues of Water Management Transboundary Water Management and the Climate Change Debate Water Resource Systems Planning and Management Water Management, Purification, and Conservation in Arid Climates, Volume III Water Management, Food Security and Sustainable Agriculture in Developing Economies Science, Policy and

Stakeholders in Water Management

Sustainable Water Management

2016-10-14

while the world's population continues to grow the availability of water remains constant facing the looming water crisis society needs to tackle strategic management issues as an integrated part of the solution toward water sustainability the first volume in the two volume set sustainable water management and technologies offers readers a practical and comprehensive look at such key water management topics as water resource planning and governance water infrastructure planning and adaption proper regulations and water scarcity and inequality it discusses best management practices for water resource allocation ground water protection and water quality assurance especially for rural arid and underdeveloped regions of the world timely topics such as drought ecosystem sustainability climate change and water management for shale oil and gas development are presented discusses best practices for water resource allocation ground water protection and water quality assurance offers chapters on urban rural arid and underdeveloped regions of the world describes timely topics such as drought ecosystem sustainability climate change and water management for shale oil and gas development covers water resource planning and governance water infrastructure planning and adaptation proper regulations and water scarcity and inequality discusses water resource monitoring efficiency and quality management

Integrated Urban Water Management: Arid and Semi-Arid Regions

2009-04-10

the integrated urban water management iuwm is an emerging approach to managing the entire urban water

cycle in an integrated way which is key to achieving the sustainability of urban water resources and services the iuwm incorporates the systematic consideration of the various dimensions of water including surface and groundwater resources quality and quantity issues the implication that while water is a system it is also a component which interacts with other systems and the interrelationships between water and social and economic development integrated urban water management arid and semi arid regions the outcome of unesco s international hydrological programme project on the topic examines the integrated management of water resources in urban settings focusing on issues specific to arid and semi arid regions and on what make them different from other regions the urban water management system is considered herein as two integrated major entities water supply management and water excess management the first six chapters provide an overview of the various aspects of iuwm in arid and semi arid regions with emphasis on water supply technologies such as artificial recharge water transfers desalination and harvesting of rainfall water excess management is examined in the context of both the stormwater management system and the floodplain management system case studies from developed and developing countries are presented in order to emphasize the various needs and challenges of water management in urban environments in arid and semi arid regions around the world

Water Management in 2020 and Beyond

2009-07-06

this is the first book to authoritatively assess how water management will be shaped by 2020 due to forces within and outside the water sector it offers a pragmatic assessment arrived at by experts from different parts of the world and different fields

Water Management in Africa and the Middle East

1996

water management in africa and the middle east challenges and opportunities

Management of Water Resources in Agriculture

1998

rapid industrialisation coupled with population explosion has resulted in greater urbanisation because of these the water that was available for agriculture is now being shared by various sectors this has resulted in a gradual decline in per capita land and water availability at the same time the need to increase the food production to feed the increasing population is being increasingly felt mismanagement of available water has added one more dimension to this problem resulting in development of problem soils thus causing reduction in the production per unit quantity of water hence it has become absolutely necessary to use the available water resources in such a manner as to get the maximum returns per unit quantity of water at present no book covers the multifaceted nature of this problem hence in this book all aspects like methods of irrigation measurement of water quality of waters water requirements of crops scheduling of irrigation water budgeting irrigation efficiency drainage recycling agronomy soil science crop physiological aspects of irrigation system etc have been covered a separate section of constraints and weakness in the current water management practices is also included in this book this book will be of great help to the administrators dealing with water management water technologists scholars and farmers who are taking steps to maximise the benefits of the available water resources on the scientific basis to get the higher productivity of water

Water for Food Water for Life

2013-07-23

managing water resources is one of the most pressing challenges of our times fundamental to how we feed 2 billion more people in coming decades eliminate poverty and reverse ecosystem degradation this comprehensive assessment of water management in agriculture involving more than 700 leading specialists evaluates current thinking on water and its interplay with agriculture to help chart the way forward it offers actions for water management and water policy to ensure more equitable and effective use this assessment describes key water food environment trends that influence our lives today and uses scenarios to explore the consequences of a range of potential investments it aims to inform investors and policymakers about water and food choices in light of such crucial influences as poverty ecosystems governance and productivity it covers rainfed agriculture irrigation groundwater marginal quality water fisheries livestock rice land and river basins ample tables graphs and references make this an invaluable work for practitioners academics researchers and policymakers in water management agriculture conservation and development published with iwmi

Water Management

2018-11-05

exponential growth in population and improved standards of living demand increasing amount of freshwater and are putting serious strain on the quantity of naturally available freshwater worldwide water management social and technological perspectives discusses developments in energy efficient water production management wastewater treatment and social and political aspects related to water management and re use of treated water

it features a scientific and technological perspective to meeting current and future needs discussing such technologies as membrane separation using reverse osmosis the use of nanoparticles for adsorption of impurities from wastewater and the use of thermal methods for desalination the book also discusses increasing the efficiency of water usage in industrial agricultural and domestic applications to ensure a sustainable system of water production usage and recycling with 30 chapters authored by internationally renowned experts this work offers readers a comprehensive view of both social and technological outlooks to help solve this global issue

Water Resource Management Issues

2019-11-26

drinking water safety basic principles and applications examines the technical and scientific as well as regulatory ethical and emerging issues of pollution prevention sustainability and optimization for the production and management of safe drinking water to cope with environmental pollution population growth increasing demand terrorist threats and climate change pressures it presents a summary of conventional water and wastewater treatment technologies in addition to the latest processes features include provides a summary of current and future of global water resources and availability summarizes key u s regulatory programs designed to ensure protection of water quality and safe drinking water supplies with details on modern approaches for water utility resilience examines the latest water treatment technologies and processes including separate chapters on evaporation crystallization nanotechnology membrane based processes and innovative desalination approaches reviews the specialized literature on pollution prevention sustainability and the role of optimization in water treatment and related areas as well as references for further reading provides illustrative examples and case studies that complement the text throughout as well as an appendix with sections on units and conversion

constants

Sustainable Water Use and Management

2014-12-27

contributing to the growing debate on the need for sustainable water use and management with concrete examples of new approaches concepts arguments methods and findings which illustrate how this can be achieved this book will be attractive for large groups of readers familiar with one or more of the themes it tackles and to the general public within this context the book makes use of many tables and graphics which bring the many messages together this approach is intended not only for those working on water matters e g bureaucrats water managers policymakers journalists etc and interested in water management issues and sustainability at large but also for students of water management water politics environmental policy water economics water engineering and sustainability studies located at the crossroads of two key phenomena sustainability and water this book brings forward academic research and discussions on water efficiency new technologies and the water agriculture nexus it also benefits readers by tackling matters related to trans boundary cooperation on water including rainwater and river basin management pricing issues participatory water management and the role of women in sustainable water use amongst others

Water Management in Megacities

2013-09-13

efficient and equitable water wastewater and stormwater management for the megacities is becoming an

increasingly complex task the special issue will focus on water management in its totality for megacities including their technical social economic legal institutional and environmental dimensions through a series of specially invited case studies from different megacities of the world at present around one out of two of the earth's 6.3 billion people live in urban areas each year the world population grows by around 80 millions practically all of this growth is urban primarily due to migration world's urban population is expected to reach 5 billion by 2030 which is nearly 2/3rd more than in 2000 and would mean that 60% of world's population will live in urban areas the case studies analysed include some of the most interesting and challenging megacities of this planet dhaka istanbul jakarta johannesburg méxico city riyadh and são paulo they assess different aspects of how water is intermingled in the overall development milieu the special issue will consider the magnitudes nature and extent of the present and future challenges and how these could be met in socially acceptable and cost effective ways the contributors are all acknowledged water experts from different parts of the world this book was previously published as a special issue of the international journal of water resources development

Oil & Gas Produced Water Management

2021-05-10

produced water contributes to the largest volume waste stream associated with oil and gas exploration and production operations it is usually a complex mixture of inorganics and organics that is formed underground and brought to the surface during oil and gas production traditionally produced water has been considered as a waste to the oil and gas industry the conventional management strategies include disposal typically by injection into depleted wells or permitted disposal wells recycle direct reuse within the production operation and reuse treatment and reuse offsite for food crop irrigation livestock watering or industrial use the oil and gas industry is going through a paradigm shift where scarcity of water economics of water management declining oil costs and increasing focus on

environmental and ecological stewardship are shifting the focus toward integrated water management in e p operations water is no longer a problem to be delegated to a third party disposal or treatment vendor but is becoming a cornerstone of o g production in this review we summarize produced water characteristics regulations and management options produced water treatment fundamentals and a detailed discussion of process equipment and advantages disadvantages of currently available treatment processes these results in peer reviewed publications could provide a guide for the selection of appropriate technologies based on the desired application major research efforts in the future could focus on the optimization of current technologies and use of combined treatment processes of produced water in order to comply with reuse and discharge limits under more stringent environmental regulations

Water Resources and Water Management

1987

water management and water loss contains a selection of papers and articles written by various internationally recognised specialists in the field of water loss reduction the articles have been drawn together from iwa conferences during the past 5 years and provide details of how water losses from municipal distribution systems can be reduced the book provides useful background information and reference materials to help explain the different approaches and interventions that are used to reduce water losses numerous real case studies are provided that highlight the processes and methodologies employed around the world to reduce water losses water management and water loss covers many aspects of water loss control including pressure management leak detection and repair internal plumbing losses and retrofitting community involvement and education awareness schools education and leak repair projects authors stuart hamilton hydrotec ltd thorpe underwood northants uk and ronnie mckenzie groenkloof pretoria south africa

Water Management and Water Loss

2014-10-15

sustainable water resources management presents the most current thinking on the environmental social and political dimensions of sustainably managing the water supply at local regional or basin levels

Sustainable Water Resources Management

2017

this book is an outcome of the symposium on agricultural water management in netherlands and discusses the methods that leads to cost effective but environmentally acceptable techniques the book covers following topics drainage and reclamation of soil and effect of drainage on agriculture

Agricultural Water Management

2020-08-27

this book features expert contributions on key sustainability aspects of urban water management in chinese agglomerations both technical and institutional pathways to sustainable urban water management are developed on the basis of a broad interdisciplinary problem analysis

Urban Water Management for Future Cities

2019-01-21

this book fills the need for an up to date comprehensive text on irrigation water management for students of agriculture both at the undergraduate and postgraduate levels the scope of the book makes it a useful reference for courses in agricultural engineering agronomy soil science agricultural physics and environmental sciences it can also serve as a valuable guidebook to persons working with farming communities the coverage in fifteen chapters brings out different aspects of irrigation including irrigation situation in the world rainfall evaporation water wealth and progressive development of irrigation in india measurement of soil water and irrigation water methods of irrigation irrigation with saline water formulating cropping pattern in irrigated area and management of high water table

IRRIGATION WATER MANAGEMENT

2001-01-01

this textbook is written for first year graduate students and senior level undergraduates in economics graduate students in geography water resources and environmental management should also be interested the well done helpful diagrams and charts are those expected for a textbook in economics at this level in every chapter many interesting real world examples illustrate the concept being discussed some chapters have easy to read case studies set off from the text every chapter has an excellent bibliography i plan on keeping this excellent book as a shelf reference and would willingly adopt it for a class in water resource economics donald e agthe journal of the american water resources association this is a much needed book which introduces the interested reader to

the economics of water resource allocation and analyzes relevant policy issues derived from all over the world to the best of my knowledge this is the first book which is focused on communicating the basic economic concepts that govern water resources allocation the lively writing style of w douglass shaw which is enriched with excellent examples and case studies from various countries makes this book an obvious choice for a textbook in relevant courses this excellent book should be a compulsory reading for all of us who work in the field of water resources management phoebe koundouri ecological economics a state of the art and comprehensive review of water resource economics policy issues and research methods needed to address those issues it can double as a text for classes in water economics as well as a source for researchers who need a state of the art review of the literature frank a ward new mexico state university us for years i ve taught water economics and policy by piecing together readings from dozens of texts and articles now i finally have one text that provides comprehensive coverage of water economics at a level both accessible to senior undergraduates while still sufficiently rigorous for graduate students i cannot wait to use this text in my classes eric schuck colorado state university us w douglass shaw s water resource economics and policy is a valuable and timely contribution those new to the subject of water resource economics will find a treatment that is both comprehensive and readable suitable for undergraduate and selected graduate level classes the book amply demonstrates the application of basic microeconomic principles to water issues and provides valuable in depth discussion of water quality and of urban agricultural environmental and recreational water use the economics of risk and uncertainty are clearly presented in the context of drought flood control and water supply and demand these are key themes in this field that can be difficult to communicate to undergraduates this text will be invaluable in teaching water resource economics bonnie colby university of arizona us douglass shaw s water resource economics and policy is a timely and useful offering filling an important void in ms and post bac texts the beginning chapters provide background in legal and economic theory considerations each is followed up in the book with specific regulatory and institutional examples as well as citations and explanations of empirical work in water resources economics topics in agricultural and residential water use as well as reservoir

impoundments and trans boundary water issues yield useful concepts for a wide range of students the text serves as a very essential framework with which supplementary readings can be added the organization of the book is sensible it provides a means by which a greater body of materials may be arranged the course i currently teach contains students from a diverse set of academic fields the text materials are eminently accessible for all of these students i highly recommend this to be an indispensable source book for water resource e

Water Resource Economics and Policy

2007-01-01

integrated water resources management iwrms has become a global paradigm for the governance of surface coastal and groundwaters this special issue contains twelve articles related to the transfer of iwrms policy principles the articles explore three dimensions of transfer causes processes outcomes and offer a theoretically inspiring methodologically rich and geographically diverse engagement with iwrms policy transfer around the globe as such they can also productively inform a future research agenda on the dimensional aspects of iwrms governance regarding the causes the contributions apply criticise extend or revise existing approaches to policy transfer in a water governance context asking why countries adopt iwrms principles and what mechanisms are in place to understand the adoption of these principles in regional or national contexts when it comes to processes articles in this special issue unpack the process of policy transfer and implementation and explore how iwrms principles travel across borders levels and scales finally this set of papers looks into the outcomes of iwrms policy transfer and asks what impact iwrms principles once implemented gave on domestic water governance water quality and water supply and how effective iwrms is at addressing critical water issues in specific countries

Water Resources and Water Management

1987

the spectacular industrial and economic development of the twentieth century was achieved at a considerable environmental cost the increasingly precarious position of water the most valuable of natural resources reflects this trend today we have come to realise that concepts of sustainable development need to replace the antiquated belief that the environment in general and natural resources in particular are simply there for the taking the responsible use of water in which man profits from resources without endangering their future should have precedence in any water policy regional water system management contains invited lectures presented by eminent authors to the international seminar regional water management water conservation water supply systems integration held in valencia spain in 2002 the publication provides a general overview of basic water management principles for the twenty first century and will be of interest to those studying water conservation as well as professionals already in the field

Governing Integrated Water Resources Management

2020-01-23

this collection of papers explains how knowledge and capacity development can contribute to improved effective water management with a digest of lessons learned in the areas of development of tools and techniques field applications and evaluation the authors are prominent practitioners capacity builders and academics within the water and capacity development sectors capacity development for improved water management starts with an introduction and overview of progress and challenges in knowledge and capacity

development in the water sector the next part presents tools and techniques that are being used in knowledge and capacity development in response to the prevailing challenges in the water sector and a review of experience with capacity change in other sectors in the third part a number of cases are presented that cover knowledge and capacity development experiences in the water resources and water services sectors this part also presents experiences on water education for children and on developing gender equity the fourth part provides experiences with the monitoring and evaluation of knowledge and capacity building

Regional Water System Management

2002-01-01

this report presents the analysis of current status of water resources management in afghanistan and identify steps for maximizing the use of available water resources to enhance crop productivity and environmental sustainability

Capacity Development for Improved Water Management

2019-04-30

pollutants and water management pollutants and water management resources strategies and scarcity delivers a balanced and comprehensive look at recent trends in the management of polluted water resources covering the latest practical and theoretical aspects of polluted water management the distinguished academics and authors emphasize indigenous practices of water resource management the scarcity of clean water and the future of the water system in the context of an increasing urbanization and globalization the book details the

management of contaminated water sites including heavy metal contaminations in surface and subsurface water sources it details a variety of industrial activities that typically pollute water such as those involving crude oils and dyes in its discussion of recent trends in abatement strategies pollutants and water management includes an exploration of the application of microorganisms like bacteria actinomycetes fungi and cyanobacteria for the management of environmental contaminants readers will also discover a wide variety of other topics on the conservation of water sources including the role of government and the public in the management of water resource pollution the causes of river system pollution and potential future scenarios in the abatement of river pollution microbial degradation of organic pollutants in various water bodies the advancement in membrane technology used in water treatment processes lead contamination in groundwater and recent trends in abatement strategies for it highly polluting industries and their effects on surrounding water resources perfect for graduate and postgraduate students and researchers whose focus is on recent trends in abatement strategies for pollutants and the application of microorganisms for the management of environmental contaminants pollutants and water management resources strategies and scarcity also has a place in the libraries of environmentalists whose work involves the management and conservation of polluted sites

Water resources management in Afghanistan: The issues and options

2002

this textbook has been updated and revised to meet the new a level geography specifications the topics include water a global resource drainage basin processes streamflow and human influences and water pollution in bangladesh includes information on the three gorges project in china

Pollutants and Water Management

2021-04-12

this book focusses on hydrological modeling water management and water governance it covers the applications of remote sensing and gis tools and techniques for land use and land cover classifications estimation of precipitation evaluation of morphological changes and monitoring of soil moisture variability moreover remote sensing and gis techniques have been applied for crop mapping to assess cropping patterns computation of reference crop evapotranspiration and crop coefficient hydrological modeling studies have been carried out to address various issues in the water sector modflow model was successfully applied for groundwater modeling and groundwater recharge estimation runoff modeling has been carried out to simulate the snowmelt runoff together with the rainfall and sub surface flow contributions for snow fed basins a study has been included which predicts the impact of the land use and land cover on stream flow various problems in the water sector have been addressed employing hydrological models such as swat arcswat and vic an experimental study has been presented wherein the laboratory performance of rainfall simulator has been evaluated hydrological modeling studies involving modifications in the curve number methodology for simulation of floods and sediment load have also been presented this book is useful for academicians water practitioners scientists water managers environmentalists and administrators ngos researchers and students who are involved in water management with the focus on hydrological modeling water management and water governance

Water Resources

2001

water resources are under extreme pressure today all over the world the resulting problems have given rise to many activities which reflect the growing concern about them and the importance of effective management as water increasingly becomes a precious resource on which the well being of future generations depends it is essential to discuss issues concerning quality quantity planning and other related topics containing papers presented at the fourth international conference on water resources management this book examines the recent technological and scientific developments associated with the management of surface and sub surface water resources the wide variety of subjects covered are as follows water resource management and planning waste water treatment and management water markets and policies urban water management water quality storm water management water security systems pollution control irrigation problems reservoirs and lakes river basin management hydrological modelling flood risk decision support systems groundwater flow problems and remediation technologies coastal and estuarial problems soil and water conservation and risk analysis

Water Management and Water Governance

2020-11-11

in the face of growing water stress and increasing concerns over the sustainability of water use tanzania has in common with many other countries in africa focused largely on the development of more integrated catchment wide approaches to water management in the great ruaha river basin considerable effort has gone into increasing water productivity and the promotion of mechanisms for more efficient allocation of water resources

over a period of five years the riparwin project investigated water management in the basin and evaluated the effectiveness of some of the mechanisms that have been introduced the study findings are relevant to basins in developing countries where there is competition for water and irrigation is one of the main uses

Water Resources Management IV

2007-05-08

water resource management consists of planning developing distributing and managing the available water resources with increasing population growth urbanization and climate change water management becomes more demanding this book presents innovative solutions for present as well as future challenges we are facing in water conservation and water quality protection the 2nd ed entails new figures percentages latest information trends and all case studies updated with new ones provides a green perspective on how water is and can be used the update will entail new figures percentages latest information trends and all case studies updated with new ones

Agricultural water management in a water stressed catchment: Lessons from the RIPARWIN Project

2007

scarcity of water floods and erosion caused by climate change have made the management of water resources a challenge to national and international actors worldwide states have also initiated water projects to improve social welfare often with significant impacts on the environment this book combines close analysis of the legal

structures of water rights with consideration of the modes of water management projects to illustrate current water related problems in terms of practical solutions in a global context

Water Resources Management

2024-04-01

this book provides an overview of facts theories and methods from hydrology geology geophysics law ethics economics ecology engineering sociology diplomacy and many other disciplines with relevance for concepts and practice of water resources management it provides comprehensive but also critical reading material for all communities involved in the ongoing water discourses and debates the book refers to case studies in the form of boxes sections or as entire chapters they illustrate success stories but also lessons to be remembered to avoid repeating the same mistakes based on consolidated state of the art knowledge it has been conceived and written to attract a multidisciplinary audience the aim of this handbook is to facilitate understanding between the participants of the international water discourse and multi level decision making processes knowing more about water but also about concepts methods and aspirations of different professional disciplinary communities and stakeholders professionalizes the debate and enhances the decision making

Water Resource Management and the Law

2017-11-24

the comprehensive and compact presentation in this book is the perfect format for a resource textbook for undergraduate students in the areas of agricultural engineering biological systems engineering bio science

engineering water resource engineering and civil environmental engineering this book will also serve as a reference manual for researchers and extension workers in such diverse fields as agricultural engineering agronomy ecology hydrology and meteorology

Handbook of Water Resources Management: Discourses, Concepts and Examples

2021-06-12

in an increasingly global community of researchers and practitioners new technologies and communication means have made the transfer of policies from one country or region to another progressively more prevalent there has been a lot of attention in the field of public administration paid to policy transfer and institutional transplantation this book aims to create a better understanding of such transfers in the water management sector these include the adoption of modern water management concepts such as integrated water resources management and forms of water governance which are strongly promoted and sometimes also imposed by various international organizations transfers also occur within the scope of development aid or for the purpose of creating business opportunities in addition many research organisations consultancies and governmental agencies are involved in cross border work the purpose of this book is therefore to present practical examples of the transfer of modern water management from one locality to another and to critically discuss the transferability of policy and governance concepts by analysing the contextual needs and factors case studies are included from north america europe the middle east and asia it is argued that in many cases context matters in water management and that there is no panacea or universal concept that can be applied to all countries or regions with different political economic cultural and technological contexts yet it is also shown that some countries are facing pressing and similar water management issues that cut across national borders and

hence the transfer of knowledge may be beneficial

Practices of Irrigation & On-farm Water Management: Volume 2

2011-01-11

now in its second edition water resources an integrated approach provides students with a comprehensive overview of natural processes associated with water and the modifications of these processes by humans through climate change and land management water related health issues engineering approaches to water and socio economic processes of huge importance to water resources the book contains chapters written by 24 specialist contributors providing expert depth of coverage to topics the text introduces the basic properties of water and its importance to society and the nature of the different regional imbalances between water resource availability and demand it guides the reader through the changing water cycle impacted by climate and land management water flows in river basins surface water quality groundwater and aquatic ecosystems and covers the role of water in human health and associated hazards before turning to engineering solutions to water and wastewater treatment and reuse the book deals with physical and social management strategies required for water resource planning the economics of water and treatment of issues associated with conflict over water the concept of virtual water is covered before the text concludes with a chapter considering the challenges of predicting future water issues in a rapidly changing world and where environmental systems can behave in a non linear way the need to work across disciplines to address challenges that are connected at both local and global scales is highlighted water resources also includes global examples from both the developing and developed world there are 58 case study boxes each chapter is supplemented with these case studies and with reflective questions project ideas and further reading as well as links to a glossary of terms the book is richly illustrated throughout with over 160 full colour diagrams and photographs the text provides a novel

interdisciplinary approach to water in a changing world from an environmental change perspective and interrelated social political and economic dimensions it will be an indispensable guide to undergraduates studying water resources and management geography of water and water in the environment

Water Governance, Policy and Knowledge Transfer

2013-05-29

there is an estimated 1.4 billion km³ of water in the world but only approximately three percent 39 million km³ of it is available as fresh water moreover most of this fresh water is found as ice in the arctic regions deep groundwater or atmospheric water since water is the source of life and essential for all life on the planet the use of this resource is a highly important issue water management is the general term used to describe all the activities that manage the optimum use of the world's water resources however only a few percent of the fresh water available can be subjected to water management it is still an enormous amount but what's unique about water is that unlike other resources it is irreplaceable this book provides a general overview of various topics within water management from all over the world the topics range from politics current models for water resource management of rivers and reservoirs to issues related to agriculture water quality problems the development of water demand and water pricing are also addressed the collection of contributions from outstanding scientists and experts provides detailed information about different topics and gives a general overview of the current issues in water management the book covers a wide range of current issues reflecting on current problems and demonstrating the complexity of water management

Water Resources

2019-11-01

climate change has an impact on the ability of transboundary water management institutions to deliver on their respective mandates the starting point for this book is that actors within transboundary water management institutions develop responses to the climate change debate as distinct from the physical phenomenon of climate change actors respond to this debate broadly in three distinct ways adapt resist as in avoiding the issue and subvert as in using the debate to fulfil their own agenda the book charts approaches which have been taken over the past two decades to promote more effective water management institutions covering issues of conflict cooperation power and law a new framework for a better understanding of the interaction between transboundary water management institutional resilience and global change is developed through analysis of the way these institutions respond to the climate change debate this framework is applied to six river case studies from africa asia and the middle east ganges brahmaputra jordan mekong niger Nile orange Senqu from which learning conclusions and policy recommendations are developed

Current Issues of Water Management

2011-12-02

this book is open access under a cc by nc 4.0 license this revised updated textbook presents a systems approach to the planning management and operation of water resources infrastructure in the environment previously published in 2005 by UNESCO and Deltares Delft Hydraulics at the time this new edition written again with contributions from Jery R Stedinger Jozef P M Dijkman and Monique T Villars is aimed equally at students and

professionals it introduces readers to the concept of viewing issues involving water resources as a system of multiple interacting components and scales it offers guidelines for initiating and carrying out water resource system planning and management projects it introduces alternative optimization simulation and statistical methods useful for project identification design siting operation and evaluation and for studying post planning issues the authors cover both basin wide and urban water issues and present ways of identifying and evaluating alternatives for addressing multiple purpose and multi objective water quantity and quality management challenges reinforced with cases studies exercises and media supplements throughout the text is ideal for upper level undergraduate and graduate courses in water resource planning and management as well as for practicing planners and engineers in the field

Transboundary Water Management and the Climate Change Debate

2015-05-26

this three volume series presents a broad and integrated approach to water management purification and conservation in arid climates volume one includes an introductory chapter on water problems and water resources in arid climates followed by specific chapters covering various aspects of water management volumes two and three deal with water purification and water conservation respectively many textbooks on water issues normally deal with only one of these areas this series covers all three areas with an emphasis on the problems faced by arid regions the three volume series will appeal to industry specialists in desalination and wastewater treatment irrigation engineers graduate and undergraduate students in hydrology water management and conservation professionals government personnel involved in water resources development decision makers environmentalists employees of the petrochemical industry and individuals wishing to specialize in water

management purification and conservation

Water Resource Systems Planning and Management

2017-03-02

this book addresses strategies for food security and sustainable agriculture in developing economies the book focuses primarily on india a fast developing economy whose natural resource base comprising land and water supporting agricultural production is not only under enormous stress but also complex and not amenable to a uniform strategy it critically reviews issues which continue to dominate the debate on water management for agricultural and food production the book examines the validity of the claim that large water resources projects cause serious social and environmental damages using global and national datasets the authors examine claims that the future of indian agriculture is in rain fed farming supported by small water harvesting they question whether water abundant eastern india could become the granary of india through a groundwater revolution with the right policy inputs in the process they look at the less researched aspect of the food security challenge which is land scarcity in eastern india the book analyzes the physical economic and social impacts of large scale adoption of micro irrigation systems using a farming system approach for north gujarat through an economic valuation of the multiple use benefits from tank systems in western orissa it shows how value of water from large public irrigation systems could be enhanced the book also looks at the reasons for the limited success in bringing about the much needed institutional reforms in canal irrigation for securing higher productivity and equity using case studies of gujarat madhya pradesh and maharashtra finally it addresses how other countries in the developing world particularly sub saharan africa could learn from indian experience

Water Management, Purification, and Conservation in Arid Climates, Volume III

2000-01-05

one of the major problems facing practitioners and scientists working with water management is how to integrate knowledge and experiences from scientific policy and stakeholder perspectives in this book this science policy stakeholder interface spsi is examined both analytically and through the description of practical experiences from river basins in europe india and south east asia these include the tungabhadra india sesan vietnam cambodia tagus spain portugal and glomma norway which particularly highlight issues associated with pollution severely altered river flows and transboundary conflicts following two chapters which lay the framework for the book the authors describe how spsi was managed in the case study basins and how stakeholder participation and scenarios were used to integrate different perspectives and to facilitate the communication of different forms of knowledge four important aspects of water management and spsi are then discussed these are water pollution land and water interaction environmental flow and transboundary water regimes short descriptions of the case study rivers are provided together with analyses of how spsi was managed in water management in these basins and policy recommendations for the basins the book concludes by providing a series of recommendations for improving the science policy stakeholder interface in water management it represents a major step forward in our understanding of how to implement integrated water resources management

Water Management, Food Security and Sustainable Agriculture in Developing Economies

2012-11-12

Science, Policy and Stakeholders in Water Management

2010

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