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Recharge of Phreatic Aquifers in (Semi-) Arid Areas

Editor: Ian Simmers

Recharge Of Phreatic Aquifers In Arid Areas

B.S. Paliwal



Recharge Of Phreatic Aquifers In Arid Areas:

Recharge of Phreatic Aquifers in (semi-) Arid Areas Ian Simmers, 1997 Groundwater use is of fundamental importance to meet the rapidly expanding urban industrial and agricultural water requirements in semi arid areas Quantifying the current rate of groundwater recharge and define its variability in space and time are thus prerequisites for efficient groundwater resource management in these regions where such resources are often the key to economic development Attention focuses on recharge of phreatic aquifers often the most readily available and affordable source of water in semi arid regions These aquifers are also the most susceptible to contamination with the recharge rate determining their level of vulnerability Semi arid zone recharge can be highly variable the greater the aridity the smaller and potentially more variable the natural flux Its determination is an iterative process involving progressive data collection and resource evaluation there is also a need to use more than one technique to verify results Direct localised and indirect recharge mechanisms from a spectrum of known sources are addressed in the framework of recharge from precipitation intermittent flow and permanent water bodies The approach taken for each of these reflects the nature and current understanding of the processes involved The volume also reviews current recharge estimation challenges outlines recent developments and offers guidance for potential solutions

Provided by publisher *Recharge of Phreatic Aquifers in Semi Arid Areas* Ian Simmers, 1997-11-11 **Water Resources of Arid Areas** D. Stephenson, E.M. Shemang, T.R. Chaoka, 2004-08-15 With Africa's water resources constantly threatened by an increasing population and the resultant rise in water demand together with the stresses of water use for various activities desertification climate change and other interventions in the water cycle by man it is vital that the water resources in arid and semi arid regions are developed a **Understanding Water in a Dry Environment** Ian Simmers, 2003-01-01 In order to provide water security in the twenty first century there is universal agreement that a continuation of current policies and extrapolation of trends is not an option Also clear is that from both water supply and development perspectives the world's arid and semi arid regions are those currently and potentially experiencing the highest water stresses One third of the world's land surface is classified as arid or semi arid and about half of all countries are directly affected in some way by problems of aridity The hydrology of arid and semi arid areas is also known to be substantially different from that in more humid regions It is therefore essential that investigation methods appropriate to the former are developed and applied and that strategies for arid and semi arid region water resources development recognise the principal characteristics of in situ hydrological processes *Arid Lands Water Evaluation and Management* Robert Maliva, Thomas Missimer, 2012-06-09 A large part of the global population lives in arid lands which have low rainfall and often lack the water required for sustainable population and economic growth This book presents a comprehensive description of the hydrogeology and hydrologic processes at work in arid lands It describes the techniques that can be used to assess and manage the water resources of these areas with an emphasis on groundwater resources including recent advances in hydrologic evaluation and

the differences between how aquifer systems behave in arid lands versus more humid areas Water management techniques are described and summarized to show how a more comprehensive approach to water management is required in these areas including the need to be aware of cultural sensitivities and conditions unique to many arid regions The integration of existing resources with the addition of new water sources such as desalination of brackish water and seawater along with reusing treated wastewater will be required to meet future water supply needs Also changing climatic conditions will force water management systems to be more robust so that future water supply demands can be met as droughts become more intense and rainfall events become more intense A range of water management techniques are described and discussed in order to illustrate the methods for integrating these measures within the context of arid lands conditions Selected Water Resources Abstracts ,1991 *Groundwater Recharge in a Desert Environment* James F. Hogan,Fred M. Phillips,Bridget R. Scanlon,2013-03-19 This volume contains discussions on developing environmental tracers to fingerprint sources and amounts of groundwater at the basin scale the critical role of vegetation in hydroecological processes new geophysical methods in quantifying channel recharge applying geographical information system GIS models to land surface processes coupling process based vadose zone to groundwater modeling and more *Groundwater Geochemistry and Isotopes* Ian Clark,2015-04-17 There remains a lack of understanding of environmental isotopes and their use students and practitioners typically find the concepts of isotope concentrations and partitioning to be more complicated than for geochemistry However this need not be so if the basics are presented together with geochemistry using case studies and examples to make the point This new book presents the basics of environmental isotopes and geochemistry together with case studies and simple examples that build a real understanding of their use in natural and contaminated groundwater Global Groundwater Resources and Management B.S. Paliwal,2017-04-01 The book on Global Groundwater Resources and Management has been aimed at growing recognition of depleting world groundwater resources their contamination future requirement of the fast growing human population of the world and urgent need of a better groundwater resources management system The issues are quite complex but now they have crossed all the political boundaries and have become a common cause The biggest challenge before the scientific community is to integrate valuable scientific advances and technological progress to solve the issue based on holistic and effective sustainable groundwater management The book comprises the selected papers presented from all over the world at the 33rd International Geological Congress Oslo Norway August 6 14 2008 A referee system of high international standard has been used to review all the papers thoroughly before accepting them for publication Each paper has been reviewed by at least two internationally recognized subject experts In many cases as many as 5 or 6 subject experts have been contacted for the review work for a single paper because a much delayed response from the first two reviewers Fortunately all of them have sent their review comments simultaneously but at a later date The book is broadly divided into five sections dealing with key aspects of global groundwater resources and management 1

Groundwater Resources and Management 2 Hydrogeological Conditions Groundwater Assessment and Modeling 3
 Hydrogeochemistry and Contamination of Groundwater Resources 4 Exploitation of Groundwater and its Recharge 5
 Hazardous Groundwater Conditions In total 31 research papers from Argentina Australia Bangladesh China Finland Greece
 India Italy Mexico Netherlands Oman Poland Portugal Russia Serbia Turkey and Uzbekistan were selected from the General
 Symposium Hydrogeology of the 33rd I G C Oslo 2008 Reviewers were from countries like Argentina Bangladesh China
 Finland Greece India Indonesia Italy Japan Poland Portugal Russia Serbia Syria Thailand Turkey and Uzbekistan **The Rio**
Chagres, Panama Russell S. Harmon, 2005-10-11 This book calls the attention of the scientific community government
 organizations and non government agencies and the general public to arguably one of the most important and complex of the
 world's tropical rainforest regions the greater Panama Canal Watershed The Rio Chagres basin is the primary source for
 water to operate the Panama Canal and also supplies water for electricity generation and potable water for municipal use but
 this important national resource is largely unstudied from a scientific standpoint The broad objective of the book is to
 characterize and understand the physical and ecological components of an isolated and largely pristine tropical rainforest
 and describe how the different natural components of a tropical rainforest interact with one another The majority of the 23
 papers contained in the volume are based upon presentations made at an international scientific symposium of the same title
 held at the Gambo Rainforest Resort and Conference Center in Gambo Panama on 24-26 February 2003 In turn most of the
 symposium presentations arose from research undertaken during a multidisciplinary field study conducted in the upper Rio
 Chagres watershed in 2001 by an international group of scientists Convened under sponsorship of the Autoridad del Canal de
 Panama Smithsonian Tropical Research Institute Universidad Tecnológica de Panama and US Army Yuma Proving Ground
 Tropic Regions Test Center this conference brought together some 50 scientists engineers and government officials from the
 international community Coping with Water Scarcity Luis Santos Pereira, Ian Cordery, Iacovos Iacovides, 2009-03-22 One
 of the main problems confronting the world of the 21st Century is a shortage of water There is already severe scarcity in
 many regions of the world causing tremendous problems for local populations and indeed entire societies There is
 insufficient water available for the production of food to alleviate poverty and starvation the lack of water hampers industrial
 urban and tourism development forcing restrictions on other sectors especially agriculture health problems arise as the
 deterioration of ground and surface waters favours water borne diseases which flourish in the absence of decent water
 distribution and sewerage systems Water conflicts still arise in areas under stress while water for nature has become a
 vanishing priority in such zones This book is a guide to the establishment of regional and or local guidelines for developing
 and implementing new ideas for coping with water scarcity The basic premise underlying the book is that water scarcity will
 persist so personal human and society wide skills will be needed to cope with it while living in harmony with the necessary
 environmental constraints The book provides basic information to assist decision makers water managers engineers

agronomists social scientists and other professions and their students in formulating coherent hopefully harmonious and consolidated views on the issue Guidelines are also given for introducing the general public to the concept of water scarcity and how to deal with it

Water Wells and Boreholes Bruce Misstear, David Banks, Lewis Clark, 2017-02-27 Water Wells and Boreholes focuses on wells that are used for drinking industry agriculture or other supply purposes Other types of wells and boreholes are also covered including boreholes for monitoring groundwater level and groundwater quality This fully revised second edition updates and expands the content of the original book whilst maintaining its practical emphasis The book follows a life cycle approach to water wells from identifying a suitable well site through to successful implementation operation and maintenance of the well to its eventual decommissioning Completely revised and updated throughout Water Wells and Boreholes Second edition is the ideal reference for final year undergraduate students in geology and civil engineering graduate students in hydrogeology civil engineering and environmental sciences research students who use well data in their research professionals in hydrogeology water engineering environmental engineering and geotechnical engineering and aid workers and others involved in well projects

Ground Water Pollution Vijay P. Singh, Ram Narayan Yadava, 2003

Conceptual Models of Flow and Transport in the Fractured Vadose Zone National Research Council, Commission on Geosciences, Environment, and Resources, Board on Earth Sciences and Resources, U.S. National Committee for Rock Mechanics, Panel on Conceptual Models of Flow and Transport in the Fractured Vadose Zone, 2001-06-21

Fluid flow and solute transport within the vadose zone the unsaturated zone between the land surface and the water table can be the cause of expanded plumes arising from localized contaminant sources An understanding of vadose zone processes is therefore an essential prerequisite for cost effective contaminant remediation efforts In addition because such features are potential avenues for rapid transport of chemicals from contamination sources to the water table the presence of fractures and other channel like openings in the vadose zone poses a particularly significant problem Conceptual Models of Flow and Transport in the Fractured Vadose Zone is based on the work of a panel established under the auspices of the U S National Committee for Rock Mechanics It emphasizes the importance of conceptual models and goes on to review the conceptual model development testing and refinement processes The book examines fluid flow and transport mechanisms noting the difficulty of modeling solute transport and identifies geochemical and environmental tracer data as important components of the modeling process Finally the book recommends several areas for continued research

Practical and Applied Hydrogeology Zekâi Şen, 2014-08-23 Applications in Hydrogeology for Geoscientists presents the most recent scientific developments in the field that are accessible yet rigorous enough for industry professionals and academic researchers alike A multi contributed reference that features the knowledge and experience of the field s experts the book s chapters span the full scope of hydrogeology introducing new approaches and progress in conceptualization simulation of groundwater flow and transport and progressive hydro geophysical methods Each chapter includes examples of recent developments in

hydrogeology groundwater and hydrology that are underscored with perspectives regarding the challenges that are facing industry professionals researchers and academia Several sub themes including theoretical advances in conceptualization and modeling of hydro geologic challenges connect the chapters and weave the topics together holistically Advances in research are aided by insights arising from observations from both field and laboratory work Introduces new approaches and progress in hydrogeology including conceptualization simulated groundwater flow and transport and cutting edge hydro geophysical methods Features more than 100 figures diagrams and illustrations to highlight major themes and aid in the retention of key concepts Presents a holistic approach to advances in hydrogeology from the most recent developments in reservoirs and hydraulics to analytic modeling of transient multi layer flow and aquifer flow theory Integrates real life data examples and processes making the content practical and immediately implementable

Decision Support Systems for Weed Management

Guillermo R. Chantre, José L. González-Andújar, 2020-07-31 Weed management Decision Support Systems DSS are increasingly important computer based tools for modern agriculture Nowadays extensive agriculture has become highly dependent on external inputs and both economic costs as well the negative environmental impact of agricultural activities demands knowledge based technology for the optimization and protection of non renewable resources In this context weed management strategies should aim to maximize economic profit by preserving and enhancing agricultural systems Although previous contributions focusing on weed biology and weed management provide valuable insight on many aspects of weed species ecology and practical guides for weed control no attempts have been made to highlight the forthcoming importance of DSS in weed management This book is a first attempt to integrate concepts and practice providing a novel guide to the state of art of DSS and the future prospects which hopefully would be of interest to higher level students academics and professionals in related areas

Recent Development in River Corridor Management

Subashisa Dutta, Vinay Chembolu, 2023-08-17 This book presents the select proceedings of the 2nd International Conference on River Corridor Research and Management 2022 It describes various topics on fluvio hydro ecological processes of river systems The topics covered include river hydraulics river dynamics experimental and field hydraulics and remote sensing applications The book also discusses the river aquatic health river ecology and other aligned areas The book is a valuable reference for research scholars academicians river scientists and practitioners working in the areas of river science

Handbook of Water Harvesting and Conservation

Saeid Eslamian, Faezeh Eslamian, 2021-04-09 Water harvesting is gaining more and more recognition as the sustainable and resilient alternative to other water supply options It is economically viable socially compatible and environmentally friendly Water harvesting has proven to be a robust solution to overcome or reduce water shortages all over the world To apply this in a sustainable and effective way it is important to understand exactly where it can be applied to make full use of its potential The Handbook of Water Harvesting and Conservation Case Studies and Application Examples is the most comprehensive up to date and applied casebook on water harvesting and conservation yet

published The editors bring together the many perspectives into a synthesis that is both academically based and practical in its potential applications The Handbook of Water Harvesting and Conservation Case Studies and Application Examples will be an important tool for education research and technical works in the soil water and watershed management area and will be highly useful for drought strategy planning flood management and adaptation to climate change in all urban agricultural forest rangeland areas

Hydrological Drought Lena M. Tallaksen, Henny A.J. van Lanen, 2004 The majority of the examples are taken from regions where the rivers run most of the year

Proceedings of the ... International Symposium on Technology and the Mine Problem, 2002

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