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Recharge of Phreatic Aquifers in (Semi-) Arid Areas

Editor: Ian Simmers

Recharge Of Phreatic Aquifers In Arid Areas

**D. Stephenson, E.M. Shemang, T.R.
Chaoka**



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

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 *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

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

Climate Change Effects on Groundwater Resources Holger Treidel, Jose Luis Martin-Bordes, Jason J. Gurdak, 2011-12-02 Climate change is expected to modify the hydrological cycle and affect freshwater resources Groundwater is a critical source of fresh drinking water for almost half of the worlds population and it also supplies irrigated agriculture Groundwater is also important in sustaining streams lakes wetlands and associated ecosystems

But despite this *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 *Selected Water Resources Abstracts*, 1991 **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 **Wadi Hydrology** Zekai Sen, 2008-03-24 The literature of hydrology abounds with texts on the hydrological and water resource problems in humid regions However this is not the case for the arid or semi arid regions The situation is exemplified by the fact a concrete definition for the term wadi as accepted by UNESCO for describing these areas is difficult to find Arguably the

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 of South Asia** Abhijit Mukherjee, 2018-06-01 This book presents recent findings from the South Asian region SA broadly including groundwater studies on a quantity b exploration c quality and pollution d economics management and policies e groundwater and society and f sustainable sources It offers a

compilation of compelling authentic insights into groundwater scenarios throughout the water stressed South Asia region. Comprising Afghanistan, Bangladesh, Bhutan, India, Myanmar, Nepal, Pakistan, and Sri Lanka, it is the most densely populated region in the world. It occupies approximately 4% of the global land area but supports more than 25% of the global population. The SA region now faces an acute shortage of fresh water due to a rapid rise in water demand and changes in societal water use patterns. Combining essential advances and perspectives, this book offers a valuable resource for all scientists, planners, and policymakers who are interested in understanding and developing the SA and other related areas. Selected Water Resources Abstracts, 1991.

Groundwater - Volume I Luis Silveira, Eduardo J. Usunoff, 2009-02-20. Groundwater theme is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty-one Encyclopedias. Groundwater is water located beneath the ground surface in soil pore spaces and in the fractures of lithologic formations. This theme presents a perspective of the field of groundwater and an overview of the important aspects of the subject such as natural origin and distribution, characteristics under diverse climates and surrounding rocky environments, exploration and management, natural quality and human-related sources of contamination, sustainable exploitation of resources, protection, and current research trends. The content of the theme on Groundwater is organized with state-of-the-art presentations covering several topics: Origin, Distribution, Formation, and Effects; Typical Hydrogeological Scenarios; Transport Processes in Groundwater; Transport Phenomena and Vulnerability of the Unsaturated Zone; Groundwater Development; Groundwater Use and Protection; Groundwater Management; An Overview of Hydrogeology; Economic Values and Principles of Management; Special Issues in Groundwater, which are then expanded into multiple subtopics, each as a chapter. These three volumes are aimed at the following five major target audiences: University and College students, Educators, Professional practitioners, Research personnel, and Policy analysts; Managers and Decision makers; and NGOs. 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.

Groundwater Hydrology K. R. Rushton, 2004-02-06. Groundwater is a vital source of water throughout the world. As the number of groundwater investigations increases, it is important to understand how to develop comprehensive, quantified conceptual models and appreciate the basis of analytical solutions or numerical methods of modelling groundwater flow. Groundwater Hydrology: Conceptual and Computational Models describes advances in both conceptual and numerical modelling. It gives insights into the interpretation of field information, the development of conceptual models, the use of computational models based on analytical and numerical techniques, the assessment of the adequacy of models, and the use of computational models for predictive purposes. It focuses on the study of groundwater flow problems and a thorough analysis of real practical field case studies. It is divided into three parts. Part I deals with the basic principles, including a summary of mathematical descriptions of groundwater flow, recharge estimation using soil moisture balance techniques, and extensive

studies of groundwater surface water interactions Part II focuses on the concepts and methods of analysis for radial flow to boreholes including topics such as large diameter wells multi layered aquifer systems aquitard storage and the prediction of long term yield Part III examines regional groundwater flow including situations when vertical flows are important or transmissivities change with saturated depth Suitable for practising engineers hydrogeologists researchers in groundwater and irrigation mathematical modellers groundwater scientists and water resource specialists Appropriate for upper level undergraduates and MSc students in Departments of Civil Engineering Environmental Engineering Earth Science and Physical Geography It would also be useful for hydrologists civil engineers physical geographers agricultural engineers consultancy firms involved in water resource projects and overseas development workers

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

Environmental Hydrogeology Philip E. LaMoreaux, James W. LaMoreaux, Mostafa M. Soliman, Bashir A. Memon, Fakhry A. Assaad, 2008-10-21 Headlines continue to blare news of climate change tangential catastrophic events and dwindling energy resources Written by respected practitioners and geared to practitioners and students Environmental Hydrogeology Second Edition explores the role that hydrogeology can play in solving challenging environmental problems New in the Second Edition

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

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