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Recharge of Phreatic Aquifers in (Semi-) Arid Areas

Editor: Ian Simmers

Recharge Of Phreatic Aquifers In Arid Areas

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Recharge Of Phreatic Aquifers In Arid Areas:

Recharge of Phreatic Aquifers in (Semi-)Arid Areas Ian Simmers,J.M.H. Hendrickx,G.P. Kruseman,K.R. Rushton,1997-01-01 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 Recharge of Phreatic Aquifers in Semi Arid Areas Ian Simmers,1997-11-11 *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 **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

Selected Water Resources Abstracts, 1991

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

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

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 *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

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

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

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

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

Hydrology K. R. Rushton,2004-02-06 Groundwater is a vital source of water throughout the world As the number of groundwater investigations increase 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 Groundwater Hydrology Mohammad Karamouz,Azadeh Ahmadi,Masih Akhbari,2020-03-20 Increasing demand for water higher standards of living depletion of resources of acceptable quality and excessive water pollution due to urban agricultural and industrial expansions have caused intense environmental social economic and political predicaments More frequent and severe floods and droughts have changed the resiliency and ability of water infrastructure systems to operate and provide services to the public These concerns and issues have also changed the way we plan and manage our surface and groundwater resources Groundwater Hydrology

Engineering Planning and Management Second Edition presents a compilation of the state of the art subjects and techniques in the education and practice of groundwater and describes them in a systematic and integrated fashion useful for undergraduate and graduate students and practitioners This new edition features updated materials computer codes and case studies throughout Features Discusses groundwater hydrology hydraulics and basic laws of groundwater movement Describes environmental water quality issues related to groundwater aquifer restoration and remediation techniques as well as the impacts of climate change Examines the details of groundwater modeling and simulation of conceptual models Applies systems analysis techniques in groundwater planning and management Delineates the modeling and downscaling of climate change impacts on groundwater under the latest IPCC climate scenarios Written for students as well as practicing water resource engineers the book develops a system view of groundwater fundamentals and model making techniques through the application of science engineering planning and management principles It discusses the classical issues in groundwater hydrology and hydraulics followed by coverage of water quality issues It also introduces basic tools and decision making techniques for future groundwater development activities taking into account regional sustainability issues The combined coverage of engineering and planning tools and techniques as well as specific challenges for restoration and remediation of polluted aquifers sets this book apart

Ground Penetrating Radar in Sediments C. S. Bristow, Harry M. Jol, 2003 Included in this book are practical guidelines for data collection and interpretation from antennae configurations to sequence stratigraphy together with new advances such as vertical radar profiles and 3 D GPR imaging for hydrocarbon reservoir modelling designed to assist new and veteran users get the most from GPR Case studies in this book detail GPR investigations in a wide array of sedimentary environments including alluvial fans braided rivers spits beaches sand dunes lakes bogs and floodplains

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 world's population and it also supplies irrigated agriculture Groundwater is also important in sustaining streams lakes wetlands and associated ecosystems But despite this knowledge about the impact of climate change on groundwater quantity and quality is limited Direct impacts of climate change on natural processes groundwater recharge discharge storage saltwater intrusion biogeochemical reactions chemical fate and transport may be exacerbated by human activities indirect impacts Increased groundwater abstraction for example may be needed in areas with unsustainable or contaminated surface water resources caused by droughts and floods Climate change effects on groundwater resources are therefore closely linked to other global change drivers including population growth urbanization and land use change coupled with other socio economic and political trends Groundwater response to global changes is a complex function that depends on climate change and variability topography aquifer characteristics vegetation dynamics and human activities This volume contains case studies from diverse aquifer

systems scientific methods and climatic settings that have been conducted globally under the framework of the UNESCO IHP project Groundwater Resources Assessment under the Pressures of Humanity and Climate Change GRAPHIC This book presents a current and global synthesis of scientific findings and policy recommendations for scientists water managers and policy makers towards adaptive management of groundwater sustainability under future climate change and variability

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

Tracer Hydrology 97 A. Kranjc, 2020-08-26 This collection of papers is the proceedings of the 7th International Symposium on Water Tracing in Portoroz Slovenia from 26-31 May 1997 They address a number of topics in hydrology tracing techniques including protection of natural resources against pollution the use of natural and artificial tracers to help to assess contaminant transport in surface waters and aquifer parameters and modelling

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