

# GROUNDWATER HYDROLOGY OF SPRINGS

ENGINEERING,  
THEORY,  
MANAGEMENT, AND  
SUSTAINABILITY

NEVEN KRESIC | ZORAN STEVANOVIC



# Groundwater Hydrology Of Springs Engineering Theory Management And Sustainability

**Petar Milanović**



## **Groundwater Hydrology Of Springs Engineering Theory Management And Sustainability:**

**Groundwater Hydrology of Springs** Neven Kresic, Zoran Stevanovic, 2009-08-29 Groundwater Hydrology of Water Resource Series Water is an essential environmental resource and one that needs to be properly managed As the world places more emphasis on sustainable water supplies the demand for expertise in hydrology and water resources continues to increase This series is intended for professional engineers who seek a firm foundation in hydrology and an ability to apply this knowledge to solve problems in water resource management Future books in the series are Groundwater Hydrology of Springs 2009 Groundwater Hydrology of River Basins 2009 Groundwater Hydrology of Aquifers 2010 and Groundwater Hydrology of Wetlands 2010 First utilized as a primary source of drinking water in the ancient world springs continue to supply many of the world's cities with water In recent years their long term sustainability is under pressure due to an increased demand from groundwater users Edited by two world renowned hydrologists Groundwater Hydrology of Springs Theory Management and Sustainability will provide civil and environmental engineers with a comprehensive reference for managing and sustaining the water quality of Springs With contributions from experts from around the world this book covers many of the world's largest springs providing a unique global perspective on how engineers around the world are utilizing engineering principles for coping with problems such as mismanagement overexploitation and their impacts both water quantity and quality The book will be divided into two parts part one will explain the theory and principles of hydrology as they apply to Springs while part two will provide a rare look into the engineering practices used to manage some of the most important Springs from around the world Description of the spring and the aquifer feeding it Latest groundwater and contaminant transport models Description of sources of aquifer use Understanding of contamination and or possible contamination A plan for management and sustainability

**Karst Aquifers - Characterization and Engineering** Zoran Stevanović, 2015-02-25 This practical training guidebook makes an important contribution to karst hydrogeology It presents supporting material for academic courses worldwide that include this and similar topics It is an excellent sourcebook for students and other attendees of the International Karst School Characterization and Engineering of Karst Aquifers which opened in Trebinje Bosnia Herzegovina in 2014 and which will be organized every year in early summer As opposed to more theoretical works this is a catalog of possible engineering interventions in karst and their implications Although the majority of readers will be professionals with geology hydrogeology backgrounds the language is not purely technical making it accessible to a wider audience This means that the methodology case studies and experiences presented will also benefit water managers working in karst environments

*Pressures and Protection of the Underground Karst* Mitja Prelovšek, Nadja Zupan Hajna, 2011-01-01

Hydrogeological Conceptual Site Models Neven Kresic, Alex Mikszewski, 2012-07-30 A reference for students researchers and environmental professionals Hydrogeological Conceptual Site Models Data Analysis and Visualization explains how to develop effective conceptual site models perform advanced

spatial data analysis and generate informative graphics for applications in hydrogeology and groundwater remediation. Written by expert practitioners this full color book illustrates how fundamental hydrogeological concepts are translated into quantitative high resolution computer visualizations. In addition the authors discuss topics not typically covered in conventional textbooks including GIS technology and the relationship between conceptual site models and environmental policy. **Advanced Methods for Data Analysis and Visualization** Featuring more than 500 color illustrations this unique and visually powerful book outlines the required elements of a conceptual site model and provides numerous examples of supporting charts cross sections maps and 3D graphics. The authors describe advanced analytical methods such as geospatial processing kriging and groundwater modeling through practical real life examples. They also present numerous case studies in groundwater supply and remediation to help explain key engineering design concepts. **Data Driven Assessments of Groundwater Management Policy** The authors tackle controversial topics ranging from technical impracticability of groundwater remediation to sustainable management of groundwater resources. They encourage discussion and independent thought about how current environmental policies and practices can evolve to achieve better outcomes at less cost to society. **Practical Strategies for Communicating Your Findings to the General Public** While the book is technical in nature equations and advanced theory are kept to a minimum. The text focuses on practical strategies to help you create easy to understand data tables graphs maps and illustrations for technical and nontechnical audiences alike. A companion DVD includes animations reference material modeling software and more.

**Karst without Boundaries** Zoran Stevanović, Neven Krešić, Neno Kukurić, 2016-04-14 This book contains contributions written by leading experts in karstology karst hydrogeology and closely related fields. Achievements in karst research by three authors who have been awarded the annual prize of the IAH Karst Commission are included. The main focus of this book is to learn about the important and complex aquifer system. The book consists of four main subjects: 1 Management of transboundary karst aquifers 2 Karst aquifer characterization and monitoring 3 Water flow in karst from vadose to discharge zone and 4 Engineering sustainable use and protection of water in karst.

**EuroKarst 2022, Málaga** Bartolomé Andreo, Juan Antonio Barberá, Juan José Durán-Valsero, José Manuel Gil-Márquez, Matías Mudarra, 2023-01-01 This book covers advances in the field of karst from a variety of perspectives to facilitate knowledge and promote interaction between disciplines. New methods are addressed that advance data collection analysis and interpretation in a wide range of karst contexts. Case studies are presented to provide examples of advancing science. Issues addressed include karst hydrogeology water resources assessment groundwater pollution and protection methods to study karst aquifers based on hydrodynamic hydrochemistry isotopes dye tracing geophysical surveys and modeling techniques karst geomorphology and landscape mining and engineering in karst media tunnels dams etc and karst cavities touristic caves natural heritage. This book is a resource for scientists around the world to compare problems results and solutions. Likewise the examples included are used in policy decision making in karst regions.

Finally the contributions are used as a tool for university teaching

Methods to investigate the hydrology of the Himalayan springs Chinnasamy, Pennan, Prathapar, Sanmugam A., 2016-06-10 Springs are the major source of freshwater in many small mountainous watersheds within the Himalayan region. In recent years their flow rates have diminished but the reasons for this are not self-evident and hence this paper reviews the methods to investigate Himalayan springs. The review reveals that chemical and isotope analyses, mostly water dating and stable isotope e.g.  $\delta^{18}\text{O}$  analyses, could be an appropriate entry point to commence field investigations because of their potential to map complex spring pathways including linkages between aquifers. This should be combined with the building of hydrogeological maps with the available data. Output from desktop analyses, field investigations and hydrogeological maps could then contribute to the establishment of a conceptual model which could form the basis for a numerical model.

**Advances in Karst Research** M. Parise, F. Gabrovsek, G. Kaufmann, N. Ravbar, 2018-06-18 This volume covers major advances in the study of the geomorphology, hydrology, engineering geology and management of these specialized and fragile environments. The book will be valuable for geologists, engineers and geophysicists interested in karst, along with land planners, developers and managers of show caves, natural parks and reserves in karst areas.

Handbook of Engineering Hydrology Saeid Eslamian, 2014-03-21 While most books only examine the classical aspects of hydrology, the three-volume set covers multiple aspects of hydrology and includes contributions from experts from more than 30 countries. It examines new approaches, addresses growing concerns about hydrological and ecological connectivity and considers the worldwide impact of climate change.

**Threats to Springs in a Changing World** Matthew J. Currell, Brian G. Katz, 2022-12-08 Documents the declining quality and quantity of springs around the world and efforts to preserve, protect and restore them. Anthropogenic causes including climate change have been degrading springs around the world. Changes in spring water quality and flow impact human health, cultural values, ecology and livelihoods. Threats to Springs in a Changing World: Science and Policies for Protection presents a range of international studies illustrating the causes of spring degradation and strategies being used to safeguard springs both now and for the future. Volume highlights include: Examples of threatened springs in diverse hydrogeologic settings; Innovative methods and tools for understanding the hydrogeology of spring systems; Current policy and governance approaches for alleviating damage to springs; Different approaches to management of springs; A call for practitioners, policy makers, scientists and the public to work together. The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students and professionals. The audience for this book is researchers, educators and natural resource managers working to conserve dug pits, trenches and shallow bores. In doing so, it extends the reach of the book, but readers should also be prepared to encounter discussions of features and environments that differ from their own conceptualization of a spring.

Groundwater Nov-Dec 2023

*Karst Water Environment* Tamim Younos, Madeline Schreiber, Katarina Kosič Ficco, 2018-05-26 Karst aquifers are important sources

of drinking water worldwide This volume presents a discussion of the current state of knowledge on karst science advances in karst mapping and karst aquifer monitoring technologies case studies of karst aquifer assessment and regulatory perspectives on land use and water management in karst environments It offers valuable reference material for researchers involved in karst science and environmental studies as well as a guide for experts at governmental agencies scientists engineers and other professionals involved in karst aquifer protection and the design of land and water management systems in karst areas around the globe

**Water Resources Management** Vijay P Singh, Shalini Yadav, Ram Narayan Yadava, 2017-11-27 This book contains two parts The first part deals with some aspects of irrigation encompassing farm irrigation systems landscape gardening energy assessment for drip irrigation and micro sprinklers The second part is on water resources planning and management It discusses water crisis challenges in river health management water supply systems salt water intrusion lake management water supply demand assessment integrated water resources management among other topics The book will be of interest to researchers and practitioners in the field of water resources hydrology environmental resources agricultural engineering watershed management earth sciences as well as those engaged in natural resources planning and management Graduate students and those wishing to conduct further research in water and environment and their development and management may find the book to be of value

**Engineering Geology for Society and Territory - Volume 5** Giorgio Lollino, Andrea Manconi, Fausto Guzzetti, Martin Culshaw, Peter Bobrowsky, Fabio Luino, 2014-08-25 This book is one out of 8 IAEG XII Congress volumes and deals with the theme of urban geology Along with a rapidly growing world population the wave of urban growth continues causing cities to swell and new metropolitan centers to emerge These global trends also open new ventures for underground city development Engineering geology plays a major role in facing the increasing issues of the urban environment such as finding aggregates for construction works providing adequate water supply and waste management solving building problems associated to geological and geomorphological conditions evaluating host rock conditions for underground constructions preventing or mitigating geological and seismic hazards Furthermore this book illustrates recent advancements in sustainable land use planning which includes conservation protection reclamation and landscape impact of open pit mining and alternative power generation The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19 2014 analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress environment processes issues and approaches The congress topics and subject areas of the 8 IAEG XII Congress volumes are 1 Climate Change and Engineering Geology 2 Landslide Processes River Basins 3 Reservoir Sedimentation and Water Resources 4 Marine and Coastal Processes Urban Geology 5 Sustainable Planning and Landscape Exploitation 6 Applied Geology for Major Engineering Projects 7 Education Professional Ethics and Public Recognition of Engineering Geology 8 Preservation of Cultural Heritage

*Climate and Anthropogenic Impacts on Earth Surface Processes in the Anthropocene* Achim

Beylich, Daniel Vázquez Tarrío, Dongfeng Li, Marc Oliva, Mario Morellón Marteles, 2024-10-03 **Climate and Anthropogenic Impacts on Earth Surface Processes in the Anthropocene** outlines our current understanding of the effects of ongoing and accelerated environmental changes on Earth surface processes and details the systematic and quantitative methodology on the actual drivers of these processes. This book covers various geomorphological process domains and a wide range of terrestrial surface environments on Earth. It provides a broad spectrum of advanced techniques and methods of data collection and generation together with various approaches and methods of data analysis and geomorphologic modelling. This book is a valuable resource for upper level undergraduates, graduates and academics studying Earth surface processes as well as researchers and professionals in need of a comprehensive overview of Earth surface process change and influence during the Anthropocene. Comprehensively covers climatic and anthropogenic drivers of earth surface processes including detection and quantification techniques. Includes the latest research and suggestions for adapted and sustainable mitigation and management strategies. Includes worked examples and case studies of anthropogenic and climate influences on Earth surface processes.

**Small Water Bodies of the Western Balkans** Vladimir Pešić, Djuradj Milošević, Marko Miliša, 2021-11-18 The small water bodies such as headwater streams, springs, ditches, small lakes and ponds are critical to maintaining freshwater biodiversity. This is especially true for Dinaric karst where they are often the only water bodies present. However, despite their importance, they remain widely overlooked and excluded from government policies like the EU Water Framework Directive. This book includes information on different aspects of these essential but still neglected habitats. This book intends to be of interest to a wide range of audiences from researchers and conservationists to the public and decision makers.

**Groundwater Environment in Asian Cities** Sangam Shrestha, Vishnu Prasad Pandey, Shashidhar Thatikonda, Binaya Raj Shivakoti, 2016-02-11 Groundwater contributes to the sustainable development of many Asian cities by providing water for domestic, industrial and agricultural uses and regulating ecosystem flows. However, groundwater has not always been properly managed, which often has resulted in depletion and degradation of the resource. **Groundwater Environment in Asian Cities** presents the up to date scientific knowledge on groundwater environment in fourteen Asian cities using the Driver-Pressure-State-Impact-Response (DPSIR) framework. In detail, the book presents the facts and figures of groundwater dependency, problems related to groundwater over-exploitation, implementation of various policy instruments and management practices and their results in selected fourteen Asian cities: namely Bandung (Indonesia), Bangkok (Thailand), Beijing (China), Bishkek (Kyrgyzstan), Chitwan (Nepal), Delhi (India), Dili (East Timor), Ho Chi Minh (Vietnam), Hyderabad (India), Khulna (Bangladesh), Lahore (Pakistan), Seoul (South Korea), Tokyo (Japan) and Yangon (Myanmar). The book provides the one-stop platform to get sufficient details about groundwater aquifers, hydrogeology, groundwater status, impacts on groundwater environment and responses, technology, policy, institutional, etc. deployed in the case study cities and therefore provides a snapshot of Asian groundwater environments. The theoretical background of the topics discussed along with the case studies help the

readers understand the similarities and differences about the status of groundwater development and use in each city In addition the information in the book will serve as a baseline for other research such as mitigation of groundwater related problems e g land subsidence impact of climate change on groundwater and importance of groundwater for implementing sustainable development goals in future Presents a framework for evaluating groundwater environment in urban environments Includes case studies and local examples from a broad geographical range of urban environments from virtually every region in Asia including Bandung Bangkok Delhi Bishkek Beijing and Tokyo The book will be a valuable resource for groundwater adversaries in the scientific decision making and end user communities particularly for understanding and assessing state of groundwater resources in the region as well as learning from the responses practiced so far Dr Linda Anne Stevenson APN The contents in this book are very much useful for informed decision making for protecting groundwater environment and therefore contributes in making invisible visible Dr Neno Kukuric IGRAC With concrete examples and lessons for readers this book responds to the call for comprehensive research and studies the implementation of new science based methodologies and endorsement of principles for groundwater resources management and cities Dr Aureli Alice UNESCO IHP As a Regional Hub for Groundwater Management in the Asia Pacific Region IGES finds this book as a very much useful reference for knowledge hub partners groundwater managers academic institutions research scholars and international organizations working in the areas of groundwater in Asia and beyond Dr Hideyuki Mori IGES

Hydrogeology Kevin M. Hiscock, Victor F. Bense, 2021-09-15 HYDROGEOLOGY Hydrogeology Principles and Practice provides a comprehensive introduction to the study of hydrogeology to enable the reader to appreciate the significance of groundwater in meeting current and future environmental and sustainable water resource challenges This new edition has been thoroughly updated to reflect advances in the field since 2014 and includes over 350 new references The book presents a systematic approach to understanding groundwater starting with new insights into the distribution of groundwater in the Earth's upper continental crust and the role of groundwater as an agent of global material and elemental fluxes Following chapters explain the fundamental physical and chemical principles of hydrogeology and later chapters feature groundwater field investigation techniques in the context of catchment processes as well as chapters on groundwater quality and contaminant hydrogeology including a section on emerging contamination from microplastic pollution Unique features of the book are chapters on the application of environmental isotopes and noble gases in the interpretation of aquifer evolution and a discussion of regional characteristics such as topography compaction and variable fluid density on geological processes affecting past present and future groundwater flow regimes The last chapter discusses future challenges for groundwater governance and management for the long term sustainability of groundwater resources including the role of managed aquifer recharge and examines the linkages between groundwater and climate change including impacts on cold region hydrogeology Given the drive to net zero carbon emissions by 2050 the interaction of groundwater in the

exploitation of energy resources including renewable resources and shale gas is reviewed Throughout the text boxes and a set of colour plates drawn from the authors teaching and research experience are used to explain special topics and to illustrate international case studies ranging from transboundary aquifers and submarine groundwater discharge to the hydrogeochemical factors that have influenced the history of malting and brewing in Europe The appendices provide conversion tables and useful reference material and include review questions and exercises with answers to help develop the reader s knowledge and problem solving skills in hydrogeology This highly informative and accessible textbook is essential reading for undergraduate and graduate students primarily in earth sciences environmental sciences and physical geography with an interest in hydrogeology or groundwater topics The book will also find use among practitioners in hydrogeology soil science civil engineering and landscape planning who are involved in environmental and resource protection issues requiring an understanding of groundwater

**Engineering Karstology of Dams and Reservoirs** Petar Milanović, 2018-05-15 Karst terrains have been modified and adapted through a range of human activities as the need for flood control irrigation food production hydropower production and other resources has increased Successful reclamation projects require construction of dams and reservoirs Karst terrains present the most complex working conditions for dam foundation and realization of safe reservoir space Practical engineering solutions are extremely complex and the need for successful solution requires serious investigations and the cooperation of a wide spectrum of scientists and engineers A wealth of data on dam projects in karst has been collected and presented in this book Since reservoirs in karst may fail to fill despite extensive investigations and remediation treatment the book includes a description of failures as well

**Life and Water on Karst [drugi natis]** Metka Petrič, Ranko Biondić, Clarissa Brun, Tamara Crnko, Sonja Diković, Janja Kogovšek, Alenka Koželj, Franc Malečkar, Andrej Mihevc, Bojan Otoničar, Tanja Pipan, Gorazd Pretnar, Maja Radišić, Igor Ružić, 2017-05-01 The book is the result of joint work and many years of mutual cooperation between researchers from Slovenia and Croatia It was made as part of the transboundary project IVO ivljenje voda Life Water IPA CBC SI HR 2007 2013 which involved the participation of authors from project partner institutions as well as invited authors who are familiar with the characteristics of the karst area of Northern Istria and the conditions there relating to drinking water supply The monograph presents the natural features of Northern Istria the karst and karst phenomena karst hydrogeology ecology and microbiology and highlights in particular the vulnerability of the karst to various human activities The main focus of attention is on karst water sources In assessing their characteristics we used available knowledge of karst water on both sides of the border and supplemented it with new research on the transboundary area in question which was based on field measurements and sampling and chemical microbiological and biological analysis of water The collected findings form the basis for planning more effective monitoring of the quality of karst water sources their protection and consequently the improvement of their quality First edition was published in 2015 this corrected second edition is available also in paperback ISBN 978 961 05 0001 8 \_ \_ \_ \_ \_

\_\_ Knjiga je rezultat skupnega dela in dolgoletnega medsebojnega sodelovanja raziskovalcev iz Slovenije in Hrva ke Nastala je v sklopu ezmejneg projekta IVO ivljenje voda IPA CBC SI HR 2007 2013 kjer so sodelovali tako avtorji iz in titucij projektnih partnerjev kot vabljeni avtorji ki poznajo zna ilnosti kra kega obmo ja severne Istre in tamkaj nje razmere pri oskrbi s pitno vodo V monografiji so predstavljene naravne danosti severne Istre kras in kra ki pojavi kra ka hidrogeologija ekologija in mikrobiologija posebej pa je izpostavljena ranljivost krasa na razli ne lovekove dejavnosti Glavna pozornost je posve ena kra kim vodnim virom Pri oceni njihovih zna ilnosti smo uporabili razpolo ljiva spoznanja o kra kih vodah z obeh strani meje in jih dopolnili z novimi raziskavami obravnavanega ezmejneg prostora ki so temeljile na terenskih meritvah in vzor enju ter kemijskih mikrobiolo kih in biolo kih analizah vode Zbrani izsledki so osnova za na rtovanje bolj u inkovite za ite vodnih virov in posledi no za izbolj anje njihove kakovosti Pregledani ponatis knjige ki je prvi iz la leta 2015 je na voljo tudi v mehki vezavi ISBN 978 961 05 0001 8 Water Quality Monitoring and Management Daoliang Li, Shuangyin Liu, 2018-10-11 Water Quality Monitoring and Management Basis Technology and Case Studies presents recent innovations in operations management for water quality monitoring It highlights the cost of using and choosing smart sensors with advanced engineering approaches that have been applied in water quality monitoring management including area coverage planning and sequential scheduling In parallel the book covers newly introduced technologies like bulk data handling techniques IoT of agriculture and compliance with environmental considerations Presented from a system engineering perspective the book includes aspects on advanced optimization system and platform Wireless Sensor Network selection of river water quality groundwater quality detection and more It will be an ideal resource for students researchers and those working daily in agriculture who must maintain acceptable water quality Discusses field operations research and application in water science Includes detection methods and case analysis for water quality management Encompasses rivers lakes seas and groundwater Covers water for agriculture aquaculture drinking and industrial uses

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