

RUNOFF, INFILTRATION AND SUBSURFACE FLOW OF WATER IN ARID AND SEMI-ARID REGIONS

edited by

ARIE S. ISSAR

*Ben-Gurion University of the Negev,
The Jacob Blaustein Institute for Desert Research,
Sede Boqer Campus, Israel*

and

SOL D. RESNICK

University of Arizona, Tucson, Arizona, U.S.A.



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Runoff Infiltration And Subsurface Flow Of Water In Arid And Semi Arid Regions

Enrique Cabrera, Jorge García-Serra



Runoff Infiltration And Subsurface Flow Of Water In Arid And Semi Arid Regions:

Runoff, Infiltration and Subsurface Flow of Water in Arid and Semi-Arid Regions Arie S. Issar, S.D.

Resnick, 2013-06-29 Arid and semi arid regions can be defined as environments in which water is the limiting factor for biological systems. This means that survival of life in these regions involves a constant struggle to obtain this limited commodity and draw the maximum benefit out of it. However, despite the difficulties for plants, animals, and man to live in these regions, they are being utilized more and more because of the pressure of world population growth. This is expressed in the expansion of agricultural activities in desert lands as well as by the formation and rapid growth of urban and industrial centers. These trends result in a growing demand for water on the one hand and the disposal of vast amounts of waste water as well as other types of refuse on the other. Meeting the first demand, namely supplying water to the agricultural communities and urban centers, involves in many instances the over-exploitation and misuse of natural water resources. The surplus of waste water, sometimes highly loaded with toxic compounds, is likely to cause irreversible damage to the environment. The geoscientists and engineers face a challenge on two conflicting fronts. Success on one front, namely in answering the full demand for water, may lead to an increase in the pollution of the environment by waste water. **Desert Meteorology**

Thomas T. Warner, 2009-01-18 Aridity prevails over more than one third of the land area of the Earth and over a significant fraction of the oceans as well. Yet to date there has been no comprehensive reference volume or textbook dealing with the weather processes that define the character of desert areas. *Desert Meteorology* fills this gap by treating all aspects of desert weather, such as large scale and local scale causes of aridity, precipitation characteristics in deserts, dust storms, floods, climate change in deserts, precipitation processes, desertification, land surface physics of deserts, numerical modelling of desert atmospheres, and the effect of desert weather on humans. A summary is provided of the climates and surface properties of the desert areas of the world. The book is written with the assumption that the reader has only a basic knowledge of meteorology, physics, and calculus, making it useful to those in a wide range of disciplines. It includes review questions and problems for the student. This comprehensive volume will satisfy all who need to know more about the weather and climate of arid lands. It will appeal especially to advanced students and researchers in environmental science, meteorology, physical geography, hydrology, and engineering. *Geographical Information Systems in Hydrology* V.P.

Singh, M. Fiorentino, 2013-03-09 The last few years have witnessed an enormous interest in application of GIS in hydrology and water resources. This is partly evidenced by organization of several national and international symposia or conferences under the sponsorship of various professional organizations. This increased interest is in a large measure in response to growing public sensitivity to environmental quality and management. The GIS technology has the ability to capture, store, manipulate, analyze, and visualize the diverse sets of geo-referenced data. On the other hand, hydrology is inherently spatial, and distributed hydrologic models have large data requirements. The integration of hydrology and GIS is therefore quite

natural The integration involves three major components 1 spatial data construction 2 integration of spatial model layers and 3 GIS and model interface GIS can assist in design calibration modification and comparison of models This integration is spreading worldwide and is expected to accelerate in the foreseeable future Substantial opportunities exist in integration of GIS and hydrology We believe there are enough challenges in use of GIS for conceptualizing and modeling complex hydrologic processes and for globalization of hydrology The motivation for this book grew out of the desire to provide under one cover a range of applications of GIS technology in hydrology It is hoped that the book will stimulate others to write more comprehensive texts on this subject of growing importance

The Brahmaputra Basin Water Resources V.P. Singh, Nayan Sharma, C. Shekhar P. Ojha, 2013-03-09 The Brahmaputra River is a precious gift of Nature to India and especially to its northeast region The meaning of this gift becomes evident immediately when one considers the vastness of water resources which the Brahmaputra River basin possesses Nearly 30% of India's water resources potential and 41% of the country's total hydropower potential are found in this basin In terms of the average discharge the Brahmaputra River is the fifth largest river in the world Traversing a distance of about 2 900 kilometers from Tibet at an elevation of 5 150 meters to the Bay of Bengal and draining an area of nearly 1 6 million square kilometres shared by Tibet India and Bangladesh it has shaped the social economic cultural religious political and linguistic fabric of the northeast region of India from time immemorial Its majestic disposition is nothing short of poetic The northeast region has a colourful ethnic and non ethnic population and represents almost a miniature India Its biodiversity of flora and fauna and other natural ecosystems is unsurpassable The northeast region of India is endowed with enormous natural resources and the huge potential of the Brahmaputra River basin These resources notwithstanding this part of India remains woefully underdeveloped The current state of low development of the northeast region can arguably be attributed to a multitude of factors

Drought Management Planning in Water Supply Systems Enrique Cabrera, Jorge García-Serra, 2013-06-29 During the past decade many countries in the world have experienced droughts with severe impacts on water urban supply systems Because droughts are natural phenomena water utilities must design and implement drought management plans This topic was selected for the International Course on Drought Management Planning in Water Supply Systems which took place in Valencia Spain on 9-12 December 1997 and was hosted by the Universidad Internacional Menéndez y Pelayo UIMP The contributions in this book have been carefully selected and presented in four sections Introduction Water Supply Systems Modernization Drought Management in an Urban Context Practical Cases Israel USA Italy Spain To achieve a well balanced approach authors were invited from academia as well as from consultancies and water utilities and have wide experience in the subject The book is mainly aimed at water supply engineers working in utilities and consultancies

The Ganges Water Diversion: Environmental Effects and Implications M. Monirul Qader Mirza, 2006-02-03 This book deals with environmental effects on both sides of the border between Bangladesh and India caused by the Ganges water diversion This issue came to

my attention in early 1976 when news media in Bangladesh and overseas began publications of articles on the unilateral withdrawal of a huge quantity of water from the Ganges River through the commissioning of the Farakka Barrage in India I first pursued the subject professionally in 1984 while working as a contributor for Bangladesh Today Holiday and New Nation During the next two decades I followed the protracted hydro political negotiations between the riparian countries in the Ganges basin and I traveled extensively to observe the environmental and ecological changes in Bangladesh as well as India that occurred due to the water diversion The Ganges one of the longest rivers of the world originates at the Gangotri glacier in the Himalayas and flows across the plains of North India Eventually the river splits into two main branches and empties into the Bay of Bengal The conflict of diversion and sharing of the Ganges water arose in the middle of the last century when the government of India decided to implement a barrage at Farakka to resolve a navigation problem at the Kolkata Port

Current Issues of Water Management Uli Uhlig, 2011-12-02 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

The Water Environment of Cities Lawrence A. Baker, 2009-04-21 The concept for the Water Environment of Cities arose from a workshop Green 1 Cities Blue Waters workshop held in 2006 The workshop assembled experts from engineering planning economics law hydrology aquatic ecology geomorphology and other disciplines to present research findings and identify key new ideas on the urban water environment At a lunch discussion near the end of the workshop several of us came to the recognition that despite having considerable expertise in a narrow discipline none of us had a vision of the urban water environment as a whole We were as in the parable blind men at opposite ends of the elephant knowing a great deal about the parts but not understanding the whole We quickly recognized the need to develop a book that would integrate this knowledge to create this vision The goal was to develop a book that could be used to teach a complete multidisciplinary course The Urban Water Environment but could also be used as a supplemental text for courses on urban ecosystems urban design

landscape architecture water policy water quality management and watershed management The book is also valuable as a reference source for water professionals stepping outside their arena of disciplinary expertise The Water Environment of Cities is the first book to use a holistic interdisciplinary approach to examine the urban water environment We have attempted to portray a holistic vision built around the concept of water as a core element of cities Water has multiple roles municipal water supply aquatic habitat landscape aesthetics and recreation Increasingly urban water is reused serving multiple purposes

Hydrological Modelling in Arid and Semi-Arid Areas Howard Wheater, Soroosh Sorooshian, K. D. Sharma, 2007-11-22 Arid and semi arid regions are defined as areas where water is at its most scarce The hydrological regime in these areas is extreme and highly variable and they face great pressures to deliver and manage freshwater resources However there is no guidance on the decision support tools that are needed to underpin flood and water resource management in arid areas UNESCO initiated the Global network for Water and Development Information for arid lands GWADI and arranged a workshop of the world's leading experts to discuss these issues This book presents chapters from contributors to the workshop and includes case studies from the world's major arid regions to demonstrate model applications and web links to tutorials and state of the art modelling software This volume is a valuable reference for researchers and engineers working on the water resources of arid and semi arid regions

Climate Changes during the Holocene and their Impact on Hydrological Systems Arie S. Issar, 2004-08-05 It is now widely accepted that increasing concentrations of greenhouse gases in the atmosphere are causing higher global atmospheric temperatures However there is still a great deal of uncertainty about the likely effects of such a temperature rise on climate and even more about the impacts of climate change and variability on the world's hydrological regimes and socio economic systems Studying the effects of climate variability in the past can give clues as to possible future effects This volume provides a comprehensive review of the effects of climate variability on hydrological and human systems in the Holocene the last 10 000 years in various parts of the world The book concentrates on the regions bordering the Mediterranean Sea western and central Europe China Japan West and South Africa and the southwestern USA This book will be of value to researchers and professionals in hydrology climatology geology and historical geography

Progressive Development, 2010 The book is based on the results of the investigations of the authors in the semi arid and arid regions ASAR of the globe These investigations brought to the conclusion that the warming climate will cause the drying up of the water resources in these regions In this case the principles of Sustainable Development will not be able to avert forthcoming catastrophes These conclusions brought to the compilation of the policy of Progressive Development emphasising investment in the development of new water resources and changing the natural environments while advancing the local populations on the dimension of knowledge by education

Risk-Informed Management of European River Basins Jos Brils, Werner Brack, Dietmar Müller-Grabherr, Philippe Négrel, Jan E. Vermaat, 2013-08-23 The growing impacts of economic activities and climate change

on the conditions of rivers throughout the world require a new integrated approach towards river basin management an approach that can also cope with an uncertain future In this volume leading European scientists and representatives of major stakeholder groups present risk informed management as this new approach as developed in the European Commission funded project RISKBASE It aims to improve the ecological quality of river basins and thus to sustain the goods and services they provide for the benefit of society Risk informed management involves the integrated application of three key principles Being well informed Managing adaptively Pursuing a participatory approach The authors explain and underpin these principles in detail offer inspiring examples from practice and connect them to the implementation of the European Water Framework Directive WFD This book is intended for scientists consultants and practitioners concerned about river basins world wide as well as the drafters and implementers of the WFD River Basin Management Plans **Managing Urban**

Water Supply D.E. Agthe,R.B. Billings,N. Buras,2013-06-29 We the editors have long believed that a strong knowledge of relatively simple economic and engineering concepts is valuable in solving water management problems The lack of such knowledge has been apparent to us in some of the journal articles research proposals and books we have reviewed The articles which have been written concerning specific local water economies and management issues are scattered over a wide variety of journals making them hard to access Most of the extensive water resources literature is concerned with large regional water projects or with narrow technical and regional issues This book was written to make practical economic and engineering concepts readily available to urban water supply managers thereby filling a gap in the available literature It is concerned with decisions made daily monthly or annually by managers of urban water supply systems The book includes basic chapters presenting supply and cost concepts calculation of demand elasticities use of marketing concepts public goods analysis water markets industrial water demand and the use of price in water conservation The authors have included multiple examples of how these concepts can aid in managing urban water supply The water provider is generally a governmental entity or regulated private utility Most books on public utilities and their management emphasize gas electricity or telephone rather than water Water is different because of m or variations in quality by source and the necessity for proper disposal of waste water **Water Supply Management** D. Stephenson,2012-12-06 Supply of sufficient clean drinking water is often taken for granted but it requires a considerable technical and financial effort to ensure reliable and economic water supply This volume presents an up to date overview of water supply management and aims at efficient management of water supply schemes rather than design of new works Various chapters of the book are devoted to water demands management of reservoirs and conjunctive use of alternative sources Asset management and loss control are also considered Water quality and provision of water to developing communities are also discussed Water supply management is of concern to developed urban environments as well as developing communities The book will be equally valuable to the practising water engineer and the newcomer or graduate student in the subject The topographical impact on

effectiveness of flood protection measures Bündnisse zur Mohsen Masoudian,2009

Climate Change - Environment

and Civilization in the Middle East Arie S. Issar, Mattanyah Zohar, 2013-04-17 We live in an early stage of an interglacial period which began some fifteen thousand years ago a warming trend which with the extreme ups and downs is still gaining momentum There is little doubt that sometime in the foreseeable future the global climate will inexorably become much warmer and many regions such as the Near East will become much drier We even accelerate this process by recklessly pumping carbon dioxide from fossil fuels into the atmosphere And if that is not enough industrial agricultural and disease ridden human waste unfit for consumption will increasingly pollute the diminishing few remaining water resources By now we fully realize the disastrous consequences of what we do and yet go on doing it So what about the Intelligence of the Homo sapiens about which we read in our books Obviously one of the qualities of intelligence is the capacity to forecast the future on the basis of past experience Since writing was invented and important or mundane matters were recorded in our region many stories about disasters emerging either from shortage or superabundance of water are found The one as well as the other often decided the fate of ancient peoples The inherent historical understanding of the crucial role of water in the fate and thus faith of the human societies faded out when it moved from the semi arid western part of Asia to humid Europe

Selected Water Resources Abstracts ,1991-10 *Water Resources Management in Mountain Regions* Virendra Bahadur Singh, Sugosh Madhav, Rakesh Kumar Gupta, Prerna Diwan, Amit Kumar, 2025-03-21 An up to date and comprehensive analysis of mountainous region water resource management In *Water Resources Management in Mountain Regions* a team of distinguished researchers delivers an up to date survey of mountain region hydrology including the assessment dynamics and modeling of glaciers rivers and lakes as well as coverage of the impact of climate change and anthropogenic activities on mountain ecosystems The authors discuss the challenges posed for those attempting to sustainably manage water resources and explain the impacts of those challenges on water yield water quality and the risk of flash flooding The book includes several case studies from the Himalayan mountain range which serves as a model region for both medium high and very high altitude water resources It also examines traditional methods of water resource management and conservation and their relevance for 21st century strategies Readers will also find A thorough introduction to the management challenges of water resources in the Sikkim Mountain regions Comprehensive explorations of the microbial dynamics ecological resilience and sustainable management strategies of mountainous water resources Practical discussions of the application of Geographic Information Systems and Remote Sensing in Satpuda mountainous terrain Complete examinations of water resource vulnerability to climate change in the mountain regions of India Perfect for scientists and other professionals working in surface and subsurface hydrology environmental management and climate science *Water Resources Management in Mountain Regions* will also prove invaluable to professionals working in companies and governmental institutions involved in water resource exploitation and conservation hydroelectric power generation and disaster prevention Encyclopedia of

Water Science (Print) Bobby A. Stewart, Terry Howell, 2003-07-31 PRINT ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT reference.taylorandfrancis.com **SCS National Engineering Handbook: Hydrology. pt. 1. Watershed planning** United States. Soil Conservation Service, 1959

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