

The Handbook of Environmental Chemistry 40
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Elissavet Dotsika *Editors*

Threats to the Quality of Groundwater Resources

Prevention and Control

 Springer

Threats Quality Groundwater Resources Environmental

Richard Bailey



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Threats to the Quality of Groundwater Resources Andrea Scozzari, Elissavet Dotsika, 2015-11-27 This book focuses on scientific and technological aspects of groundwater resources assessment and surveillance. It describes relevant risks and investigates selected techniques for the monitoring and mitigation of the individuated threats to groundwater quality. The authors discuss the concepts of groundwater resources protection and offer examples of both geogenic and anthropogenic degradation of groundwater quality such as heavy metals from mining activities and natural water rock interactions as well as risk of contamination due to geological CO₂ storage practices etc. The volume also covers non invasive monitoring techniques and briefly addresses innovative sensor technologies for the online assessment of water quality. Furthermore the role played by geochemical techniques, the potential of environmental isotopes and the support provided by physical modelling are highlighted. The chapters guide the reader through various viewpoints according to the diverse disciplines involved without aiming to be exhaustive but instead picking representative topics for their relevance in the context of groundwater protection and control. This book will be of interest to advanced students, researchers, policy makers and stakeholders at various levels.

Waste Management and the Environment VII C. A. Brebbia, G. Passerini, H. Itoh, 2014-05-12 The proceedings of the 7th International Conference on Waste Management and the Environment follows on from the success of previous meetings held in Cadiz 2002, Rhodes 2004, Malta 2006, Granada 2008, Tallin 2010 and the New Forest 2012. There is growing awareness of the detrimental effects of current waste disposal and a movement towards greater accountability for effective waste management. Better practices and safer solutions are required. This creates a need for more research on current disposal methods such as landfills, incineration, chemical and effluent treatment as well as recycling. Waste incineration, clean technologies, waste monitoring, public and corporate awareness and general education. Waste Management is one of the key problems of modern society due to the ever expanding volume and complexity of discarded domestic and industrial waste. Unfortunately many of the policies adopted in the past were aimed at short term solutions without due regard to the long term implications on health and the environment leading in many cases to the need to take difficult and expensive remedial action. The desired direction of waste management is towards sustainable strategies. The approach which has emerged as the most sustainable strategy has been called 3Rs where reduction, reuse and recycling in this order are seen as the best actions. Recently recovery is added as the fourth action 4Rs applied in order to for example recover energy from waste that cannot be classified under the 3Rs. This largely decreases the volume of the waste that needs final disposal. Further steps are required towards improvement of current technologies, increased collaboration between the public, government and private sectors and increased involvement of all stakeholders. Topics covered include Environmental impact, Reduce, reuse, recycle and recovery 4Rs, Cost and benefits of management options, Waste incineration and gasification, Energy from waste, Industrial waste management, Nuclear and hazardous waste, Agricultural waste, Wastewater, eWaste.

Landfill optimization and mining Remote sensing Thermal treatment Emergent pollutants Environmental remediation Legislation Behavioural issues *Handbook of Engineering Hydrology* Saeid Eslamian, 2014-03-21 While most books examine only the classical aspects of hydrology this 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 new quantitative and qualitative managing techniques and considers the worldwide impact of climate change It also provides updated material on hydrological science and engineering discussing recent developments as well as classic approaches Published in three books Fundamentals and Applications Modeling Climate Change and Variability and Environmental Hydrology and Water Management the entire set consists of 87 chapters and contains 29 chapters in each book The chapters in this book contain information on The anthropogenic aquifer groundwater vulnerability and hydraulic fracturing and environmental problems Disinfection of water environmental engineering for water and sanitation systems environmental nanotechnology modeling of wetland systems nonpoint source and water quality modeling water pollution control using low cost natural wastes and water supply and public health and safety Environmental flows river managed system for flood defense stormwater modeling and management tourism and river hydrology and transboundary river basin management The historical development of wastewater management sediment pollution and sustainable wastewater treatment Water governance scarcity and security The formation of ecological risk on plain reservoirs modification in hydrological cycle sustainable development in integrated water resources management transboundary water resource management and more Students practitioners policy makers consultants and researchers can benefit from the use of this text **Review of Ground Water Quality Concerns** United States. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Research, and Foreign Agriculture, 1989

Groundwater Resource Management Planning Strategies Vangala Sunitha, Bandi Muralidhara Reddy, Yenugu Sudharshan Reddy, Mannala Prasad, Badapalli Pradeep Kumar, Etikala Balaji, 2025-07-18 Geospatial tools to Groundwater Resources explain the most recent methods in Geographic Information Systems GIS and geostatistics as they apply to groundwater through complete case studies that demonstrate actual remote sensing applications in this field Due to the rising demand for water its decreasing quality and its limited supply water resource management has grown to be a serious issue In many places of the world groundwater is the main supply of fresh water but certain areas are growing unduly reliant on it utilising groundwater more quickly than it can be replenished naturally and resulting in an unceasing decrease in water tables For the efficient use management and modelling of this priceless but diminishing natural resource systematic planning of groundwater consumption using current approaches is crucial Remote sensing GIS GPS Global Positioning Systems and geostatistical approaches are among the effective water management methods that have developed with the introduction of powerful and fast personal computers Now more than ever it is possible to analyse with greater accuracy the relationships

between environmental elements and human health and wellbeing Our understanding of the continuum between environment and health consequences on many different sizes from the global to even the individual has evolved thanks to a number of transdisciplinary accomplishments This book covers a wide range of geospatial health related topics and methods including climate change healthcare utilisation health disparities air quality assessment asthma water quality assessment and machine learning It also advances scientific understanding development and application of geospatial technologies related to water resource management Researchers and postgraduate students in Earth and Environmental Sciences particularly GIS agriculture hydrology natural resources and soil science who need to be able to apply the most recent innovations in groundwater research in a practical way will find Case Studies in Geospatial Applications to Groundwater Resources to be a valuable resource This edited volume will concentrate on the most recent studies and uses of geospatial methods in water resource management offering insights into the difficulties and possibilities of applying these methods to solve practical issues

Selected Water Resources Abstracts, 1991

Contaminants in Agriculture and Environment: Health Risks and Remediation Vinod Kumar, Rohitashw Kumar, Jogendra Singh, Pankaj Kumar, 2019-06-25 The book entitled Contaminants in Agriculture and Environment Health Risks and Remediation is focused on the emerging contaminants in agriculture and environment and it will be helpful for the researchers academicians scientists UG and PG students and other stakeholders engaged in the field of agriculture and environmental studies The contaminants of crops vegetables fruits fishes grains and pulses and their health effects and impact of pollutants on human animal health growth and productivity of agricultural crops

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

Environment, Resources and Sustainable Tourism Ashoka G.

Dessai,2023-05-26 This book suggests sustainable economy from the viewpoint of tourism fostering low carbon footprint Focussed on conserving heritage culture and endemic biota of a crucial biodiversity hotspot of the world the book discusses the impact of a large population fast paced development and excessive consumption of earth resources by tourism in a developing economy The book i assesses the impact of overexploitation of earth resources on environmental components such as air water land and people ii examines the sustainability of tourism on the physical economic and socio cultural environment including human lifestyles iii presents the potential of tourism in promoting sustainable development poverty alleviation and conservation of nature and iv formulates recommendations for tourism fostering sustainable development in Goa India The book offers students researchers academics and professionals a comprehensive discourse integrating geological and societal perspectives on core issues It generates critical thinking on the complex issue of sustainable tourism by providing in depth perspective on peoples of different hues and their role in safeguarding the future of this unique region

Assessment and Management of Environmental Risks Igor Linkov,José Palma-Oliveira,2012-12-06 Managing environmental contamination requires decision makers to weigh exlstmg risks against the potential effects of implementing environmental policies considering both the benefits and disruptions that may result from different actions The NATO Advanced Research Workshop in Lisbon was an important step in the development and application of cost efficient methods of risk assessment especially within the constraints of a budget The goal of the workshop was to evaluate the potential for risk assessment to serve as a unified and unifying technique in addressing a wide range of environmental problems Papers presented in this book discuss issues ranging from specific and local studies specific site ecosystem pollutant to global decision and management frameworks watersheds regions integration of multiple pollutants and stressors they develop a range of approaches starting from specific methods to widely applied public policies Figure 1 The papers show that the use of risk assessment can provide the scientific basis for environmentally sound and cost efficient policies strategies and solutions to our environmental challenges The organization of the Proceedings reflects sessions and discussions during the workshop The papers in the introductory Chapter summarize the positions of Drs Glenn Suter EPA and Jim Wilson Resources for the Future regarding whether the use of often expensive risk assessments in developing countries can be justified given evolving regulatory institutions and limited resources

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