

Springer Environmental Science and Engineering

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# Groundwater Engineering



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# Groundwater Engineering Springer Environmental Science

**Lauren Gardner**



## **Groundwater Engineering Springer Environmental Science:**

**Water Resources and Environmental Engineering I** Maheswaran Rathinasamy, S. Chandramouli, K.B.V.N.

Phanindra, Uma Mahesh, 2018-09-01 The book is a compilation of the papers presented in the International Conference on Emerging Trends in Water Resources and Environmental Engineering ETWREE 2017 The high quality papers are written by research scholars and academicians of prestigious institutes across India The book discusses the challenges of water management due to misuse or abuse of water resources and the ever mounting challenges on use reuse and conservation of water It also discusses issues of water resources such as water quantity quality management and planning for the benefits of water resource scientists faculties policy makers stake holders working in the water resources planning and management The research content discussed in the book will be helpful for engineers to solve practical day to day problems related to water and environmental engineering

**Groundwater Geochemistry** Sughosh Madhav, Pardeep Singh, 2021-06-14 This book contains both practical and theoretical aspects of groundwater resources relating to geochemistry Focusing on recent research in groundwater resources this book helps readers to understand the hydrogeochemistry of groundwater resources Dealing primarily with the sources of ions in groundwater the book describes geogenic and anthropogenic input of ions into water Different organic inorganic and emerging contamination and salinity problems are described along with pollution related issues affecting groundwater New trends in groundwater contamination remediation measures are included which will be particularly useful to researchers working in the field of water conservation The book also contains diverse groundwater modelling examples enabling a better understanding of water related issues and their management Groundwater Geochemistry Pollution and Remediation offers the reader An understanding of the quantitative and qualitative challenges of groundwater resources An introduction to the environmental geochemistry of groundwater resources A survey of groundwater pollution related issues Recent trends in groundwater conservation and remediation Mathematical and statistical modeling related to groundwater resources Students lecturers and researchers working in the fields of hydrogeochemistry water pollution and groundwater will find Groundwater Geochemistry an essential companion The Handbook of Groundwater Engineering John H. Cushman, Daniel M. Tartakovsky, 2016-11-25 This new edition adds several

new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing CO<sub>2</sub> sequestration sustainable groundwater management and more Providing a complete treatment of the theory and practice of groundwater engineering this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones covers the protection of groundwater and the remediation of contaminated groundwater

## **Legacy, Pathogenic and Emerging Contaminants in the Environment**

Manish Kumar, Meththika Vithanage, Sanjeeb Mohapatra, Kishor Acharya, 2021-12-30 This is the time when legacy pathogenic and emerging contaminants must be talked about understood and dealt with together While the geogenic contamination of

the groundwater is a well established phenomenon that is considered as legacy contaminants that risk people's health globally both pathogenic and emerging contaminants like various water borne pathogens and pharmaceutical personal care products PPCPs are becoming imperative for their acute and chronic toxic effects While contaminated groundwater consumption leads to skin pigmentation hyperkeratosis kidney damage cardiovascular disease and children's overall development poor sanitation related pathogenic microorganisms cause a significant number of child and prenatal deaths Simultaneously antibiotic microbial resistance AMR is expected to kill 100 million people by 2050 However there are rare texts that combine aspects of all these three under a single book cover This book gives an understanding of the occurrence fate and transport of geogenic microbial and anthropogenic contaminants in the groundwater It covers not only the scientific and technical aspects but also environmental legal and policy aspects for contaminant management in the environment under the paradigm shift of COVID 19 This book is intended to bring the focus on the natural contaminants biotic or abiotic in the post COVID Anthropocene which is illustrating a significant alteration of systems and the subsequent downstream impacts owing to globalization This book has compiled global work on emergence mass flow partitioning and activation of geogenic emerging and pathogenic contaminants in various spheres of environment with special emphasis on soil sediment and aquatic systems for enhancing the understanding on their migration and evolution for the welfare of mankind *Metals in Water* Sushil Kumar Shukla, Sunil Kumar, Sugghosh Madhav, Pradeep Kumar Mishra, 2022-11-19 *Metals in Water* Global Sources Significance and Treatment covers metal pollution in water where they come from their effects and remediation processes Sections overview heavy metals pollution including their global health impacts and remediation measures Geogenic and anthropogenic input of heavy metals in water are described along with global case studies step by step methods on remediation techniques different detection sensors and assessment practices of toxicity of heavy metals The book focuses on recent research surrounding heavy metals contamination in water resources and its impact across the globe Chapters incorporate both theoretical and practical aspects and serve as baseline information for water resources studies This book is useful for postgraduate students teachers and researchers working in areas of water resources and pollution hydrochemistry environmental remediation and toxicology who are looking to understand the affects metals have on water the environment and health and also those looking for methods for remediation Presents global case studies of sites contaminated by metals effects on the environment and successful remediation techniques Includes a whole section on remedial measures with clear step by step how to guides Provides chapters covering detailed biogeochemical processes

*Co-treatment of Septage and Faecal Sludge in Sewage Treatment Facilities* Dorai Narayana, 2020-04-15 Over the past few years on site sanitation has been widely promoted as a solution which can be quickly implemented to address sanitation issues and it is gaining traction As such treatment of the contents emptied from on site containments has become a pressing issue While dedicated treatment facilities for this purpose have been advocated co treating these wastes in sewage treatment

facilities is a promising option which many countries have implemented or are exploring This option maximises the utilisation of city infrastructure In cases where the existing sewage treatment facilities are underutilised co treatment presents a ready solution for managing fecal sludge and septage In spite of co treatment being a well known practice in many countries it remains clouded in uncertainty especially regarding the technical advisability and potential risks of co treating fecal sludge or septage in sewage treatment plants Planners and decision makers are often very apprehensive in considering co treatment As a result the opportunity to better utilise available infrastructure for co treatment of sludge is often being missed

Meanwhile there are also many cases where co treatment has been tried either successfully or otherwise but it has not been possible to draw conclusions from these to guide the way forward This guide book explores some of the basic principles behind sewage treatment and how it may be impacted by co treatment of wastes from on site containments to try to throw some light on how co treatment could be considered in an incremental manner recognising risks and mitigating them It is intended to facilitate a better understanding among planners engineers decision makers and technical practitioners and to help them evaluate and consider the option of co treatment

**Sustainable eco-technologies for water and wastewater treatment** Eldon Rene ,Li Shu ,Veeriah Jegatheesan ,2020-03-15 One of the major challenges in the world is to provide clean water and sanitation for all With 3% fresh water reserves in the earth there are more than 1 billion people who still lack access to clean drinking water The declining water quality has not only reduced the life expectancy of humans but it has also contributed to the deleterious negative impacts on aquatic marine life flora fauna and the ecosystem However with rapid technological advancements and the availability of advanced scientific instruments there has been substantial improvement in the design and operation of water and wastewater treatment systems Recently these sustainable eco technologies have been designed and operated to offer the following advantages i a smaller footprint ii less maintenance iii 99% removal of contaminants iv provides the option for resource recovery v less energy consumption vi minimal use of chemicals and vii less investment and operational costs This book highlights the technologies used for the removal of pollutants such as dyes uranium cyanotoxins faecal contamination and P N compounds from water environments and shows that ecotechnologies are becoming more and more important and playing critical role in removing a wide variety of organic and inorganic pollutants from water In Focus a book series that showcases the latest accomplishments in water research Each book focuses on a specialist area with papers from top experts in the field It aims to be a vehicle for in depth understanding and inspire further conversations in the sector

The Mekong River Basin Hong Quan Nguyen,Heiko Apel,Quang Bao Le,Minh Tu Nguyen,Venkataramana Sridhar,2024-04-22 The Mekong River Basin Ecohydrological Complexity from Catchment to Coast Volume Three presents real facts data and predictions for quantifying human induced changes throughout the Mekong watershed including its estuaries and coasts and proposes solutions to decrease or mitigate the negative effect and enable sustainable development This is the first work to link socio ecological interaction study over the whole Mekong River basin

through the lens of ecohydrology Each chapter is written by a leading expert with coverage on climate change groundwater land use flooding drought biodiversity and anthropological issues Human activities are enormous in the whole watershed and are still increasing throughout the catchment with severe negative impacts on natural resources are emerging Among these activities hydropower dams especially a series of 11 dams in China are the most critical as they generate massive changes throughout the system including in the delta and to the livelihoods of millions of people and they threaten sustainability Presents an extensive collection of eco hydrological changes in the river basin driven by both nature and anthropological factors Provides state of the art modeling data analysis methodologies for complex socio ecological complexity applied in the Mekong river basin Includes specific cases of ecohydrology in the river basin especially from the Mekong delta Control of Heavy Metals in the Environment Lawrence K. Wang, Mu-Hao Sung Wang, Yung-Tse Hung, Jiaping Paul Chen, 2025-02-28 Offering broad coverage of advanced principals and applications Control of Heavy Metals in the Environment mini series provides chemical and environmental engineers with the most complete resource available on the remediation of heavy metal contaminants with an emphasis on advanced and alternative approaches It investigates a variety of environmental pollution sources and waste characteristics that require a multitude of remediation methods It then details the latest in clean tech advances including fungal bioprocesses and addresses recycling and disposal techniques as well as metals pollution from the transportation industry The authors delve into costs and effluent standards and offer several illustrative case histories to illustrate the regional and global effects of key pollution control practices Features Provides technical information for industrial and hazardous waste treatment Discusses the control treatment and management of metal emissions from motor vehicles Explores the newest methods of clean production and waste minimization Includes numerous figures tables examples and case histories *Contaminants of Emerging Concerns and Reigning Removal Technologies* Manish Kumar, Sanjeeb Mohapatra, Kishor Acharya, 2022-06-30 With an increased demand for wastewater reuse groundwater recharge with treated wastewater has been practiced across the globe As a result groundwater quality deteriorates by emerging micropollutants from various anthropogenic origins including untreated wastewater seepage of landfill leachate and runoff from agricultural lands The fate of such emerging and geogenic contaminants in subsurface systems especially in the groundwater depends on several factors Physicochemical properties of contaminants such as octanol water partition coefficient dissociation constant water solubility susceptibility to biodegradation under anaerobic conditions and environmental persistence under diverse geological and pH conditions play a critical role during subsurface mass flow Thus advanced wastewater treatment techniques followed by implementing stricter guidelines are some of the measures that can safeguard water resources This book in general gives an understanding of the fate and mitigation strategies for emerging and geogenic contaminants in the groundwater The first and second sections provide a detailed insight into various removal techniques and mitigation approaches Possible treatment strategies including bioremediation and natural attenuation are

also covered in those sections Environmental assessment groundwater vulnerability health effects and regulations pertaining to various contaminants are systematically presented in the third section *Advanced Simulation and Modeling for Urban Groundwater Management - UGROW* Dubravka Pokrajac, Ken W.F. Howard, 2010-11-16 Advanced Simulation and Modelling for Urban Groundwater Management UGROW Groundwater plays a vital role in the urban water cycle but is frequently ignored The assessment and evaluation of urban water systems rarely consider the contribution of groundwater to the urban water budget and available decision support tools for integrated urban water management often fail to include aquifer storage and the strong two way interaction that commonly occurs between groundwater and surface water and other urban water system components Advanced Simulation and Modelling for Urban Groundwater Management UGROW presents the result of a project of UNESCO s International Hydrological Programme on the topic The book presents UGROW a complete and fully integrated Modelling package for simulating urban water systems As a decision support tool for urban water management it focuses on urban groundwater but all other key urban water system elements are fully represented and seamlessly linked The theory behind UGROW is thoroughly described in the book with three case studies illustrating how UGROW can be applied in practice A CD ROM containing a fully functional version of UGROW is included in the book

**Contaminant Hydrogeology** C. W. Fetter, Thomas Boving, David Kremer, 2017-10-24 Tremendous progress has been made in the field of remediation technologies since the second edition of Contaminant Hydrogeology was published two decades ago and its content is more important than ever Recognizing the extensive advancement and research taking place around the world the authors have embraced and worked from a larger global perspective Boving and Kremer incorporate environmental innovation in studying and treating groundwater soil contamination and the transport of those contaminants while building on Fetter s original foundational work Thoroughly updated expanded and reorganized the new edition presents a wealth of new material including new discussions of emerging and potential contaminant sources and their characteristics like deep well injection fracking fluids and in situ leach mining New sections cover BET and Polanyi adsorption potential theory vapor transport theory the introduction of the Capillary and Bond Numbers the partitioning interwell tracer testing technique for investigating NAPL sites aerial photographic interpretation geophysics immunological surveys high resolution vertical sampling flexible liner systems groundwater tracers and much more Contaminant Hydrogeology is intended as a textbook in upper level courses in mass transport and contaminant hydrogeology and remains a valuable resource for professionals in both the public and private sectors Groundwater Engineering Rajandrea Sethi, Antonio Di Molfetta, 2019-07-03 This textbook employs a technical and quantitative approach to explain subsurface hydrology and hydrogeology and to offer a comprehensive overview of groundwater related topics such as flow in porous media aquifer characterization contaminant description and transport risk assessment and groundwater remediation It describes the characterization of subsurface flow of pristine and polluted water and provides readers with easily applicable

tools for the design of water supply systems drinking water source protection and remediation interventions Specific applications range from groundwater exploitation as a drinking water supply to the remediation of contaminated aquifers from the definition and safeguarding of drinking water sources to the assessment of human health risks in connection with groundwater contamination events The book represents an ideal learning resource for upper undergraduate and graduate students of civil engineering environmental engineering and geology as well as practitioners in the fields of water resource management and environmental protection who are interested in groundwater engineering and technical hydrogeology

**Water Resource Modeling and Computational Technologies** Mohammad Zakwan, Abdul Wahid, Majid Niazkar, Uday Chatterjee, 2022-10-22 Water Resource Modeling and Computational Technologies Seventh Edition provides the reader with a comprehensive overview of the applications that computational techniques have in various sectors of water resource engineering The book explores applications of recent modeling and computational techniques in various sectors of water resource engineering including hydroinformatics irrigation engineering climate change hydrologic forecasting floods droughts image processing GIS water quality aquifer mapping basin scale modeling computational fluid dynamics numerical modeling of surges and groundwater flow river engineering optimal reservoir operation multipurpose projects and water resource management As such this is a must read for hydrologists civil engineers and water resource managers Presents contributed chapters from global experts in the field of water resources from both a science and engineering perspective Includes case studies throughout providing readers with an opportunity to understand how case specific challenges can help with computational techniques Provides basic concepts as well as a literature review on the application of computational techniques in various sectors of water resources

**Green Nanobiotechnology** Atul Thakur, Preeti Thakur, Deepa Suhag, S M Paul Khurana, 2024-12-26 This book provides a comprehensive exploration of green nanotechnology covering principles applications and ethical considerations Green Nanobiotechnology begins with an introductory exploration of nanotechnology followed by in depth discussions on the synthesis of ozone friendly nanomaterials and the emerging practice of green synthesis It delves into the diverse applications of green nanoparticles spanning biomedical applications tissue engineering biosensors antimicrobials and vaccine development It explores applications of nanotechnology in environmental sciences including bioremediation microengineered ceramics for environmental protection and the modification of advanced nano polymer composites The environmental fate and ecotoxicological implications of nanomaterials are thoroughly examined followed by discussions on the energy saving potential and sustainable fuel development in the realm of green nanotechnology The book concludes with a focus on responsible and ethical considerations addressing the legal socio economic and ethical impacts of nanotechnology making it an important resource for researchers academics and professionals in nanobiotechnology and biomedical sciences

*River Basin Ecohydrology in the Indian Sub-Continent* Manish Kumar, AL Ramanathan, Sangam Shrestha, Keisuke Kuroda, Santanu Mukherjee, 2024-06-11 River Basin Ecohydrology



in the Indian Sub Continent Sustainable Strategies and Sustenance provides a multidisciplinary approach that focuses on conservation strategies water quality management in the eco regions catchment management practices estuaries preservation of in stream habitat populations and natural bioengineering techniques for the sustainable management of ecological resources in the Indian sub continent The book provides a unique platform for readers from branches of science and technology including engineering sciences agricultural sciences biogeochemical sciences hydrogeochemistry toxicological sciences social sciences environmental policy and governance etc to exchange ideas and information at multiple levels on sustainable water management degradation of marine quality and indicators of ecological degradation The book s contributors provide impressive and comprehensive information on different management strategies for sustainable restoration of aquatic ecological systems covering vital aspects of hydrogeochemical and geoenvironmental parameters This book aims to provide a platform for scientists and environmental researchers planners to discuss the environmental degradation spatial heterogeneity on water quality and aquatic species methodological approaches on sustainable management of biodiversity etc Presents an extensive collection of eco hydrological changes in the river basin driven by both nature and anthropological factors Provides state of the art modeling data analysis methodologies for complex socio ecological complexity applied in the Indian Sub Continent Includes specific cases of ecohydrology in the river basin especially from the Indian Sub Continent Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination J. Russell Boulding, Jon S. Ginn, 2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev **Recent Advances in Activated Carbon** Ho Soon Min, Heri Septya Kusuma, Yogesh Chandra Sharma, 2024-12-26 The world s activated carbon market volume has increased rapidly in recent years due to environmental regulations It is being used in a variety of fields including water treatment air purification and food processing This volume in the Green Chemical Innovations and Sustainability Series studies the physical biological and chemical modification of activated carbon to enhance the adsorption performance Recent experimental results indicating improved adsorption capacity are presented as well as novel applications using activated carbon The authors focus on identifying potential precursors from agricultural waste municipal waste and industrial waste and investigate toxic pollutants Features Demonstrates how researchers can produce synthetic adsorbents activated carbon via agricultural waste industrial waste and household waste Describes the actions of adsorption capacity or percentage removal with respect to factors affecting the adsorption process Investigates activated carbon s removal efficiency of dyes organic compounds pharmaceutically active compounds heavy metals pesticides fungicides herbicides antibiotics and other toxic pollutants Discusses the search for low cost adsorbents that can be produced by using agricultural wastes industrial wastes and natural materials Sustainability

of Natural Resources Rohitashw Kumar, Kanak N. Moharir, Vijay P. Singh, Chaitanya B. Pande, Abhay M. Varade, 2024-06-28 Agriculture is the backbone of the economy in most countries and its output can be impacted by climate change effects India as well as other countries which are predominantly agricultural are facing various challenges due to increasing population which can be met by technological innovations for sustainable agriculture Advanced and innovative technologies in agriculture will not only solve the problems of fulfilling the food requirement of the growing population but also sustain agriculture in the future Sustainability of Natural Resources Planning and Management addresses the advancement of innovative techniques to address the issues of water scarcity and agricultural yield It discusses various aspects of natural resource management agriculture micro irrigation AI applications for water management and impacts of climate change on water resources This book also deals water resource exploration planning recent geographic information system based studies groundwater modelling and related applications It highlights the optimal strategies for sustainable water resource management and development It also examines precision farming using remote sensing and GIS techniques

Remediation Engineering Suthan S. Suthersan, John Horst, Matthew Schnobrich, Nicklaus Welty, Jeff McDonough, 2016-11-25 This second edition of Remediation Engineering will continue to be the seminal handbook that regulators must have on hand to address any of the remediation issues they are grappling with daily The book is wide ranging but specific enough to address any environmental remediation challenge Patricia Reyes Interstate Technology Regulatory Council Washington DC USA This book offers the researcher teacher practitioner student and regulator with state of the art advances in conducting site investigations and remediation for common and emerging contaminants It is revolutionary in its approach to conducting subsurface investigation which greatly influences a successful and appropriate response in assessing and addressing environmental risk This book is a giant leap forward in understanding how contaminants behave and how to reduce risk to acceptable levels in the natural world Daniel T Rogers Amsted Industries Incorporated Chicago Illinois USA This text is a superb reference and a good tool for learning about state of the art techniques in remediation of soil and groundwater It will become a ready reference at many companies as the engineering community creates increased value from remediation efforts around the world John Waites AVX Corporation Fountain Inn South Carolina USA Remediation Engineering was first published in 1996 and quickly became the go to reference for a relatively young industry offering the first comprehensive look at the state of the science in treatment technologies of the time and the contaminants they applied to This fully updated Second Edition will capture the fundamental advancements that have taken place during the last two decades within all the subdisciplines that form the foundation of the remediation engineering platform It covers the entire spectrum of current technologies that are employed in the industry and also discusses future trends and how practitioners should anticipate and adapt to those needs Features Shares the latest paradigms in remediation design approach and contaminant hydrogeology Presents the landscape of new and emerging contaminants Details the current state of the practice for both conventional

technologies such as sparging and venting Examines newer technologies such as dynamic groundwater recirculation and injection based remedies to address both organic and inorganic contaminants Describes the advances in site characterization concepts such as smart investigations and digital conceptual site models Includes all new color photographs and figures

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