

Ebook free Contaminant hydrogeology (Download Only)

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 kreamer 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 this second edition features new and expanded coverage of contaminant hydrogeologic investigations it presents a practical approach to completing investigations

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for environmental compliance emphasizing the use of geologic principles in assessment to move sites toward cleanup stressing the basics of collecting data that can withstand regulatory scrutiny and achieve remediation principles of contaminant hydrogeology second edition demonstrates how to solve a client s site contamination problem while maximizing cost effectiveness it focuses on small and medium sized firms for which speed accuracy and cost are all crucial factors in the site assessment and closure process based on real world problems the book takes you step by step through the investigation and includes client consultant regulator interaction budgets ethics and data extrapolation for solving problems it introduces concepts such as field logistics drilling techniques sampling protocols contaminant movement and remediation regulatory personnel hydrogeological consultants drilling contractors remediation contractors university instructors and students will benefit from the wealth of information provided in this new edition this second edition features new and expanded coverage of contaminant hydrogeologic investigations it presents a practical approach to completing investigations for environmental compliance emphasizing the use of geologic principles in assessment to move sites toward cleanup stressing the basics of collecting data that can withstand regulatory scrutiny and achieve remediation principles of contaminant hydrogeology second edition demonstrates how to solve a client s site contamination problem while maximizing cost effectiveness it focuses on small and medium sized firms for which speed accuracy and cost are all crucial factors in the site assessment and closure process based on real world problems the book takes you step by step through the investigation and includes client consultant regulator interaction budgets ethics and data extrapolation for solving problems it

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introduces concepts such as field logistics drilling techniques sampling protocols contaminant movement and remediation regulatory personnel hydrogeological consultants drilling contractors remediation contractors university instructors and students will benefit from the wealth of information provided in this new edition no one has recorded when well digging started but surely humans imitated elephants in digging holes in the sand to access cooler water that didn't make the children sick eventually humankind began to redesign maintain and repair the wells they constructed but when wells became commodities in the twentieth century this maintenance ethic was forgotten recapturing that ethic sustainable wells maintenance problem prevention and rehabilitation is a guide to keeping well systems operating at peak capacity the book focuses on how to prevent and forestall problems and manage the problems with wells as they age examining the many challenges that come with maintaining well performance the book provides a comprehensive yet readable state of the art summary of performance maintenance problem prevention and rehabilitation or restoration practice with the goal of sustaining optimal performance over the long run rather than focusing on a certain aspect of well cleaning or a particular technical approach it covers the scope of maintenance and rehabilitation from planning to evaluation testing it also addresses the crucial subjects of preventive design maintenance monitoring from electrical to biofouling and evaluation testing an exploration of the subject without a vendor or strong regional bias the book is based on the authors extensive hands on experience serving well operating clientele in addition to water supply wells it addresses the problems and maintenance issues of monitoring plume control and other environmental wells compiling information from existing literature into a

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single source and combining that information with experience the book provides recommendations based on historical performance copiously illustrated with approximately ninety black and white photographs figures and a color insert the book reflects the changes in the profession that have occurred during the past decade or so these features and more make this the first resource to turn to when devising solutions for maintaining and improving well performance finalist for the 2021 prose award for environmental science an integrated approach to understanding and mitigating the problem of excess nitrogen human activities generate large amounts of excess nitrogen which has dramatically altered the nitrogen cycle reactive forms of nitrogen especially nitrate and ammonia are particularly detrimental given the magnitude of the problem there is an urgent need for information on reactive nitrogen and its effective management nitrogen overload environmental degradation ramifications and economic costs presents an integrated multidisciplinary review of alterations to the nitrogen cycle over the past century and the wide ranging consequences of nitrogen based pollution especially to aquatic ecosystems and human health volume highlights include comprehensive background information on the nitrogen cycle detailed description of anthropogenic nitrogen sources review of the environmental economic and health impacts of nitrogen pollution recommendations and strategies for reducing humanity s nitrogen footprint discussion of national nitrogen footprints and worldwide examples of mitigation policies 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 read the editors vox eos.org editors vox exploring the widespread impacts of ongoing nitrogen

Contaminant Hydrogeology

2017-10-24

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Contaminant Hydrogeology

1996-07-09

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Principles of Contaminant Hydrogeology, Second Edition

2019-12

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Principles of Contaminant Hydrogeology

2009-11-04

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Sustainable Wells

2020-06-16

finalist for the 2021 prose award for environmental science an integrated approach to understanding and mitigating the problem of excess nitrogen human activities generate large amounts of excess nitrogen which has dramatically altered the nitrogen cycle reactive forms of nitrogen especially nitrate and ammonia are particularly detrimental given the magnitude of the problem there is an urgent need for information on reactive nitrogen and its effective management nitrogen overload environmental degradation ramifications and economic costs presents an integrated multidisciplinary review of alterations to the nitrogen cycle over the past century and the wide ranging consequences of nitrogen based pollution especially to aquatic ecosystems and human health volume highlights include comprehensive background information on the nitrogen cycle detailed description of anthropogenic nitrogen sources review of the environmental economic and health impacts of nitrogen pollution

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