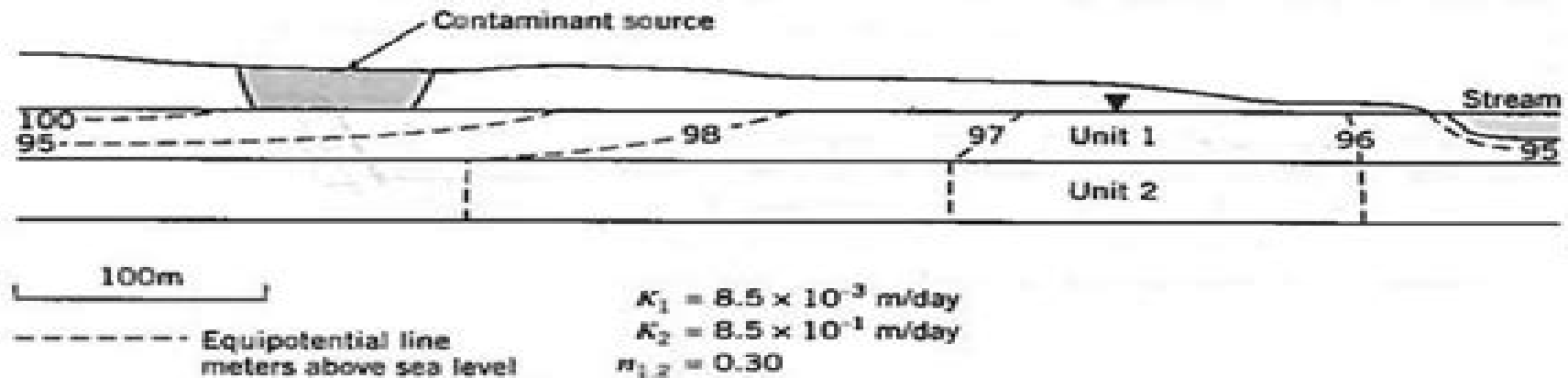


19.1. The hydrogeologic cross section on the figure illustrates the pattern of ground-water flow along a local flow system. Assume that the source of contamination develops with advection as the only



operative transport process. Describe the pathway for contaminant migration and estimate at what time in the future the plume will reach the stream.

19.2. Ground water flows through the left face of a cube of sandstone (1 m on a side) and out of the right face with a linear ground-water velocity of 10^{-5} m/s . The porosity of the sandstone is 0.10, and the effective diffusion coefficient is $10^{-10} \text{ m}^2/\text{s}$. Assume that a tracer has concentrations of 120, 100, and 80 mg/l (1.2, 1.0, and $0.8 \times 10^5 \text{ mg/m}^3$) at the inflow face, the middle of the block, and the outflow face, respectively. Calculate the mass flux through the central plane due to advection and diffusion.

19.3. A contaminant is added as a point source to ground water flowing with a constant velocity of $4 \times 10^{-6} \text{ m/s}$. Assuming longitudinal and two transverse dispersivities (y- and z-directions) of 1.0, 0.1, and 0.01 m, determine the spatial standard deviations ($\sigma_{x,y,z}$) in the plume size after 400 m of transport.

19.4. A series of hydraulic-conductivity measurements for an unconfined aquifer provide a mean hydraulic conductivity ($\bar{Y}$) of 0.004 m/s, where $Y = \ln K$, a variance in the log-transformed hydraulic conductivity (σ_Y^2) of 1.0, and a correlation length in the direction of the mean flow (σ_L) of 10.0 m. Estimate the asymptotic macroscale dispersivity for the aquifer.

19.5. In Figure 19.19, look at the pattern of evolution in the Br^- concentration as a function of travel distance. Assume that at 237 days, Γ_L is equal to 24 m. Calculate the dispersion coefficient and the dispersivity for the aquifer.

Hydrogeologic Sample Questions

Rachel S Tattersall



Hydrogeologic Sample Questions:

Field Methods for Geologists and Hydrogeologists Fakhry A. Assaad, James W. LaMoreaux, Travis Hughes, 2013-03-09 This book is designed for scientists and engineers who want practical information to plan manage write and review geologic and hydrologic projects and reports It provides step by step methods to prepare more timely readable and technically accurate reports Detailed guidelines are provided to prepare the different subjects included in this book Source references project proposals and checklists are included to assist authors The use of the techniques described in this book will result in less time spent in report writing editing rewriting and review which will save time and money This book is the result of nearly 50 years of experience in program and project development in the field of hydrogeology The two main authors P E LaMoreaux and Fakhry Assaad who submitted both the idea and the major subjects of the book have been closely associated during this period with the Geological Survey of Egypt the General Desert Development Organization in Egypt the U S Geological Survey USGS the Geological Survey of Alabama the University of Alabama and in a great variety of consulting projects in different States of America and over the world It is based on experience from the assignment and supervision of many professionals with a great variety of academic training and experience Hydrologic and Drill-hole Data for Test Wells UE-29a#1 and UE-29a#2, Fortymile Canyon, Nevada Test Site Richard K. Waddell, 1985 **Hydrogeological Field Methods. Discharge, Pumping Test and Water Analysis** Rainer Stickdorn, 2018-07-25 Research Paper postgraduate from the year 2016 in the subject Geography Earth Science Geology Mineralogy Soil Science grade 1.0 Technical University of Darmstadt Fachbereich Geologie und Materialwissenschaften course Report über Freilandversuche field work language English abstract The Hydrogeological Field Course is part of Special Modul SM9 Hydrogeological Methods of the MSc TropHEE and scheduled for the 2nd semester This block course complements the Water Analysis Course scheduled for the 1st semester Water Analysis contains lectures and a practical part with surface water sampling measuring water temperature EC pH oxygen concentration and alkalinity in the field as well ion concentrations in the lab This practical part of course 3214 is documented in another report and deals with water sampling in more detail The water sampling part of field course 3417 repeats this topic in this report TropHEE Modul Handbook names as goals of this course The students are enabled to apply basic field techniques to characterize groundwater levels groundwater flow fields and to characterize aquifers in terms of hydraulic properties Students acquire methodical skills to use standard laboratory equipment to analyse water samples and to evaluate the results Through the hands on field and laboratory work they gain soft skills such as organizational skills team working skills communication skills and data presentation skills *HYDROGEOLOGY: PROBLEMS WITH SOLUTIONS* NANDIPATI SUBBA RAO, 2016-12-01 Numerical calculations are inevitably required in the field of hydrogeology and play a significant role in dealing with its various aspects As often as not students are seen struggling while solving numerical problems based on hydrogeology as they find difficulty in identifying the correct concept behind the problem and the formula that can be

applied to it Also there is a dearth of books which help the readers in solving numerical problems of varied difficulty level and enable them to have a firm grounding in the subject of hydrogeology The book Hydrogeology Problems with Solutions fills this void in the finest way and as desired chiefly focuses on the sequential steps involved in solving the problems based on hydrogeology It concisely covers the fundamental concepts advanced principles and applications of hydrogeological tasks rather than overemphasising the theoretical aspects The text comprises sixty solved hydrogeological problems which are logically organised into ten chapters including hydrological cycle morphometric analysis hydrological properties groundwater flow well hydraulics well design and construction groundwater management seawater intrusion groundwater exploration and groundwater quality The practice of pedagogy of hydrogeology in yesteryears was a two tier approach of theoretical principles with toy problems and in situ case studies for research start up This book bridges the gap between routine problem solving and state of the practice for future The book is primarily intended for the undergraduate and postgraduate students of Earth Sciences Civil Engineering Water Resources Engineering Hydrogeology and Hydrology It also serves as an excellent handy reference for all professionals KEY FEATURES Key Concept succinctly explores the models methods and theoretical concepts related to each problem Necessary equations and formulae are specified Appendices and Glossary are included leaving no scope to refer any other book Bibliography broadens the scope of the book PPI PE Environmental Practice Problems eText - 1 Year R. Wane Schneider, 2019-03-01 Comprehensive Practice for the PE Environmental Exam A revised version of PE Environmental Practice Problems PEENPP has been released The original version was inadvertently sent to the printer before the final proofing process We apologize for any inconvenience this may have caused The new corrected edition has a Revised banner on the top right corner of the front cover If you still have the original version of the book please contact us at ppi2pass.com The PE Environmental Practice PEENPP offers the most comprehensive practice for the NCEES Environmental PE CBT exam Practice builds exam confidence and strengthens time management skills The book's content is up to date to the latest exam specifications and codes coordinates with the PE Environmental Review PEENRM and includes uniform chapter sequences nomenclature terminology and methodology After you've practiced take the PE Environmental Practice Exams PEENPX to simulate a realistic NCEES exam experience Key features 500 exam like problems in both multiple choice and essay formats along with detailed explanations covering exam specific topics Six minute multiple choice problems focus on individual concepts while longer complex problems challenge you to identify and apply engineering concepts Problems are similar in length and format and with references to the NCEES PE Environmental Reference Handbook to ensure the problems cover similar concepts as what will be encountered on the exam Step by step calculations using equations and nomenclature from the NCEES to familiarize you with the reference you'll have on exam day Binding Paperback Publisher PPI A Kaplan Company *Hydrogeology and Groundwater Modeling, Second Edition* Neven Kresic, 2006-10-26 Coupling the basics of hydrogeology with analytical and numerical modeling methods Hydrogeology and

Groundwater Modeling Second Edition provides detailed coverage of both theory and practice Written by a leading hydrogeologist who has consulted for industry and environmental agencies and taught at major universities around the world this unique book fills a gap in the groundwater hydrogeology literature With more than 40 real world examples the book is a source for clear easy to understand and step by step quantitative groundwater evaluation and contaminant fate and transport analysis from basic laboratory determination to complex analytical calculations and computer modeling It provides more than 400 drawings graphs and photographs and a variety of useful tables of all key groundwater parameters as well as lucid straightforward answers to common hydrogeological problems Reflecting nearly ten years of new scholarship since the publication of the bestselling first edition this second edition is wider in focus with added and updated examples figures and problems yet still provides information in the author s trademark user friendly style No other book offers such carefully selected examples and clear elegantly explained solutions The inclusion of step by step solutions to real problems builds a knowledge base for understanding and solving groundwater issues

Groundwater Protection United States. General Accounting Office,1992

Procedures Recommended for Overburden and Hydrologic Studies of Surface Mines James Barrett,1980

Spatial Methods for Solution of Environmental and Hydrologic Problems--science, Policy, and Standardization Vernon Singhroy,2003 Twelve papers some of which are drawn from a June 2001 symposium of the same name as the text address issues the use of geographic information systems and spatial modeling software to environmental or hydrologic problems The major themes of the papers are accuracy and uncertainty in spatial data

Modeling Hydrologic Change Richard H. McCuen,2016-04-19 Modeling hydrologic changes and predicting their impact on watersheds is a dominant concern for hydrologists and other water resource professionals civil and environmental engineers and urban and regional planners As such changes continue it becomes more essential to have the most up to date tools with which to perform the proper analyses and m

Handbook of Applied Hydrologic and Water Resources Engineering Raveendra Kumar Rai,Chandra Shekhar Prasad Ojha,Vijay P. Singh,2025-02-26 The Handbook of Applied Hydrologic and Water Resources Engineering examines the planning and design of water supply systems flood control works drought mitigation measures navigation facilities and hydraulic structures as well as feasibility and environmental impact studies for various water related projects It is based on the experience gained through consultancy in dealing with various water resources issues and problems teaching and research It serves as a useful resource for graduate students and faculty members in civil engineering agricultural engineering and water resources engineering as well as practicing engineers working in civil environmental and agricultural fields

Principles of Contaminant Hydrogeology Christopher M. Palmer,2019-07-23 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 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. **Hydrology** Ian

Watson, 2017-11-13 Hydrology covers the fundamentals of hydrology and hydrogeology taking an environmental slant dictated by the emphasis in recent times for the remediation of contaminated aquifers and surface water bodies as well as a demand for new designs that impose the least negative impact on the natural environment. Major topics covered include hydrological principles, groundwater flow, groundwater contamination and clean up, groundwater applications to civil engineering, well hydraulics and surface water. Additional topics addressed include flood analysis, flood control and both ground water and surface water applications to civil engineering design. **Hydrologic Time Series Analysis** Deepesh Machiwal, Madan Kumar Jha, 2012-03-05 There is a dearth of relevant books dealing with both theory and application of time series analysis techniques, particularly in the field of water resources engineering. Therefore many hydrologists and hydrogeologists face difficulties in adopting time series analysis as one of the tools for their research. This book fills this gap by providing a proper blend of theoretical and practical aspects of time series analysis. It deals with a comprehensive overview of time series characteristics in hydrology, water resources engineering, various tools and techniques for analyzing time series data, theoretical details of 31 available statistical tests along with detailed procedures for applying them to real world time series data, theory and methodology of stochastic modelling and current status of time series analysis in hydrological sciences. In addition, it demonstrates the application of most time series tests through a case study as well as presents a comparative performance evaluation of various time series tests together with four invited case studies from India and abroad. This book will not only serve as a textbook for the students and teachers in water resources engineering but will also serve as the most comprehensive reference to educate researchers/scientists about the theory and practice of time series analysis in hydrological sciences. This book will be very useful to the students, researchers, teachers and professionals involved in water resources, hydrology, ecology, climate change, earth science and environmental studies. Field

Hydrogeology John E. Moore, 2010-12-12 In recent years the focus in groundwater studies has expanded to also include groundwater contamination and remediation studies as a part of resource evaluations. While there are other books on the subject, Field Hydrogeology: A Guide for Site Investigations and Report Preparation provides the first integrated presentation of the American Society of Testing Materials (ASTM) standards, US Geological Survey (USGS) and US Environmental Protection

Agency EPA field techniques It also includes access to a Web site that contains software for designing aquifer tests and aquifer recharge experiments Written by an author with more than 40 years of experience in hydrology and geology this reference treats the subject from a field standpoint Useful as a field guide and a textbook it contains standard methods for planning and undertaking hydrogeologic investigations It incorporates case studies contains a glossary of field hydrogeology technical terms and provides a detailed list of ASTM standards and key hydrologic Web sites The guide is based on ASTM standards EPA and US Department of Interior DOI field technical manuals The text covers hydrogeologic fundamentals conceptual models planning an investigation surface investigations subsurface investigations field inventory stream flow measurements water quality measurements and report preparation It includes more recent groundwater evaluation techniques such as tracing and isotope techniques Field Hydrogeology will allow students and seasoned professionals to have a vast array of clearly written descriptive materials and an extensive source of references available at their fingertips About the Author John E Moore Ph D is a hydrogeologist at the USEPA Region 8 in Denver Colorado Dr Moore is also an adjunct professor of hydrology at Metro State College in Denver and a consulting hydrologist He has more than 40 years of experience in hydrogeology and geology as a researcher teacher and consultant He is internationally recognized as an expert in these fields Dr Moore was deputy assistant chief hydrologist and field scientist with the USGS and served as a technical advisor to the USEPA and the U S House of Representatives He is past president of the International Association of Hydrogeologists IAH and the American Institute of Hydrology AIH and is the chairman of the IAH Education Commission

Hydrogeology and Analysis of Aquifer Characteristics in West-central Pinellas County, Florida James C. Broska, Holly L. Barnette, 1999 Prepared in cooperation with Pinellas County 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

Limitations in Hydrologic Data as Applied to Studies of Water Control and Water Management Pacific Southwest Inter-agency Committee. Hydrology Subcommittee, 1966

Hydrologic Frequency Modeling V.P. Singh, 2012-12-06 Floods constitute a persistent and serious problem throughout the United States and many other parts of the world They are responsible for losses amounting to billions of dollars and scores of deaths annually Virtually all parts of the nation coastal mountainous and rural are affected by them Two aspects of the problem of flooding that have long been topics of scientific inquiry are flood frequency and risk analyses Many new even improved techniques have recently been developed for performing these analyses Nevertheless actual experience points out that the frequency of say a 100 year flood in lieu of being encountered on the average once in one hundred years may be as little as once in 25 years It is therefore appropriate to pause and ask where we are where we are going and where we ought to be going with regard to the technology of flood frequency and risk analyses One way to address these questions is to provide a forum where people from all quarters of the world can assemble discuss and share their experience and expertise pertaining to flood frequency and risk analyses This is what constituted the motivation for organizing the International Symposium on Flood Frequency and Risk Analyses held May 14 17 1986 at Louisiana State University Baton Rouge Louisiana

Proceedings of a Seminar on Initial Project Management Plans for Hydrologic Engineering and Economic Analysis, 1992

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