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  $10^{-10}$  m<sup>2</sup>/s. Assume that a tracer has concentrations of 120, 100, and 80 mg/l (1.2, 1.0, and 0.8 ×  $10^{5}$  mg/m<sup>3</sup>) 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  $4 \times 10^{-6}$  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 (Y) of 0.004 m/s, where Y = In K, a variance in the log-transformed hydraulic conductivity ( $\sigma_Y^2$ ) of 1.0, and a correlation length in the direction of the mean flow ( $\sigma_L$ ) 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<sup>-</sup> concentration as a function of travel distance. Assume that at 237 days, Γ<sub>L</sub> is equal to 24 m. Calculate the dispersion coefficient and the dispersivity for the aquifer.

# **Hydrogeologic Sample Questions**

**Christian Drosten** 

## **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 ber 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 containes 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 aguifers in term 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 **HYDROGEOLOGY: PROBLEMS WITH SOLUTIONS** working skills communication skills and data presentation skills 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 Environmental Practice Problems eText - 1 Year R. Wane Schneiter, 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 hygrogeology with analytical and numerical modeling

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