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Hydrogeology's importance has grown to become an integral part not only of geology curricula, but also those in environmental science and engineering. Applied Hydrogeology serves all these students, presenting the subject's fundamental concepts in addition to its importance in other disciplines. Fetter skillfully addresses both physical and chemical hydrogeology, highlighting problem solving throughout the book. Case studies, Excel-based projects, and working student versions of software used by groundwater professionals supplement the fourth edition's insightful explanations and succinct solutions to real-world challenges. Each chapter concludes with example problems, a notation of symbols, and informative analysis. A glossary of hydrogeological terms adds significant value to this comprehensive text. Fetter's accessible

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coverage prepares readers for success in their careers well beyond the classroom.

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This lab manual features a hands-on approach to learning about the physical and chemical processes that govern groundwater flow and contaminant movement in the subsurface. It will aid users in developing a deeper understanding and appreciation for the science and art of hydrogeology. Twenty-one lab exercises provide practical material that explore regional aquifer studies, slug tests, and the use of tracers to determine aquifer and contaminant parameters and modeling retardation, biodegradation, and aquifer heterogeneity, and much more. For

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individuals interested in the study of hydrogeology.

Applications in Hydrogeology for Geoscientists presents the most recent scientific developments in the field that are accessible yet rigorous enough for industry professionals and academic researchers alike. A multi-contributed reference that features the knowledge and experience of the field's experts, the book's chapters span the full scope of hydrogeology, introducing new approaches and progress in conceptualization, simulation of groundwater flow and transport, and progressive hydro-geophysical methods. Each chapter includes examples of recent developments in hydrogeology, groundwater, and hydrology that are underscored with perspectives regarding the challenges that are facing industry professionals, researchers, and academia. Several sub-themes—including theoretical advances in conceptualization and modeling of hydro-geologic challenges—connect the chapters and weave the topics together holistically. Advances in research are aided by insights arising from observations from both field and laboratory work. Introduces new approaches and progress in hydrogeology, including conceptualization, simulated groundwater flow and transport, and cutting edge hydro-geophysical methods Features more than 100 figures, diagrams, and illustrations to highlight major themes and aid in the retention of key concepts Presents a holistic approach to advances in hydrogeology, from the most recent developments in reservoirs and hydraulics to analytic modeling of transient multi-layer flow and aquifer flow theory Integrates real life data, examples and processes, making the content practical and immediately implementable

The text is designed for advanced undergraduate or beginning graduate-level courses in

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hydrology, groundwater hydrology, hydrogeology, and civil engineering. This best selling text gives students a balanced examination of all facets of hydrogeology. The text stresses the application of mathematics to problem solving rather than derivation of theory. It provides a balance between physical and chemical hydrogeology. Numerous case studies cultivate student understanding of the occurrence and movement of ground water in a variety of geologic settings.

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

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remains a valuable resource for professionals in both the public and private sectors.

Introduction to Ground Water provides the reader with the fundamental principles of the hydraulic cycle. Also complete with illustrations and real-life case studies, this text takes a comprehensive and realistic approach to the subject of hydrology. It also contains strong interactive computer-based programs for solving and simulating hydraulics groundwater processes.

Stay leagues ahead with this hands-on guide to practicing field hydrogeology For actual procedures and real-world decisions not explained in textbooks, look to The Manual of Applied Field Hydrogeology. Expert authors Willis Weight and John Songeregger provide plenty of practical examples to help you: Stay on top of what can go wrong, and prevent mishaps, injuries, and disasters Investigate contamination at hazardous waste sites safely and accurately Provide prescriptions for site cleanup Assess the quality and the quantity of an aquifer Work with mining operations on both contamination prevention and new water sources Design a single-well pumping test that's as effective as multiple wells Locate sources of groundwater Take a groundwater sample Log a drill hole Install a monitoring well Analyze a slug test More!

Completely updated, the second edition of this comprehensive volume not only covers all major areas of hydrogeology, it takes a process-oriented, integrated approach so that readers can gain a complete understanding of the relationship between physical and chemical aspects

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of this subject. Provides a good balance between theory and application and includes new areas such as contaminant hydrogeology. Includes extensive reference list and suggested readings.

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