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This revised and updated Second Edition also includes new material on the history of hydrogeology, field safety, aquifers, groundwater quality, hydrogeologic maps, and federal regulations. It gives students and seasoned professionals a vast array of clearly written descriptive materials and an extensive source of references available at their fingertips.

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Manual of Applied Field Hydrogeology Willis D. Weight , John L. Sonderegger I've been working on geochemistry and hydro-geochemistry for the last three years and this book represent an "easy-to-follow" compendium of the most usual problems and situations that you can find on field.

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The fourth edition of this bestselling textbook has been fully revised in order to present the most up-to-date and comprehensive guide to completing a hydrogeological study. Beautifully presented with full colour photos and diagrams throughout, Field Hydrogeology retains its practical pocket size for easy use in the field. This new edition includes all the recent developments in the environmental regulations, with particular focus on the use of innovative technology. New topics include geothermal energy, soakaways, marrying manual water level readings with logger records, prediction of long-term drawdown and lateral extent of impacts, and flow measurement in locations with small head gradients. With case studies and text boxes to aid comprehension, and a particular emphasis on practical application, this is an essential tool for students taking Hydrogeology and/or field course modules in Geology, Earth Sciences, Hydrogeology and Engineering courses.

Master the latest advances in hydrogeology using this fully updated resource This thoroughly revised guide clearly explains cutting-edge hydrogeology techniques that can be applied in the field. Featuring contributions from leading experts, *Practical Hydrogeology: Principles and Field Applications, Third Edition*, shows how to plan and conduct site investigations, avoid pitfalls in the field, interpret a wide array of data types gathered, and prepare water-quality reports. You will get complete coverage of key procedures, including aquifer testing, groundwater sampling, water-quality assessment, aquifer characterization, and tracer tests. This third edition has been reorganized and expanded with up-to-date information, a new chapter, review questions, and real-world examples. Coverage includes:•Field hydrogeology•The geology of hydrogeology•Aquifer properties•Groundwater flow•Pumping tests•Slug testing•Aquifer hydraulics•Water chemistry sampling•Groundwater/surface-water interaction•Vadose-zone analysis•Karst hydrogeology and tracer tests•Drilling and well completion

The successful investigation of the hydrogeology of an area depends on the collection of reliable field data. *Field Hydrogeology, Third Edition* follows a systematic approach to completing a hydrogeological study and explains how to decide on the measurements that are needed and on the instruments and techniques required. Measurements that are needed and on the instruments and techniques required. Measurements of groundwater levels, rainfall and evaporation spring and stream flows and the use of ground water tracer techniques are covered. There is a great deal of practical information on all aspects of planning and completion of field investigation and on the interpretation of field investigation and on the interpretation of field evidence. Advice on safety is also included. This third edition has been fully revised and updated to bring the book into line with developments in environmental regulations. The order of the chapters reflects the structure of a hydrogeological project and the development of a conceptual model up to completion of a report. The focus is on current practical applications of hydrogeological investigations using new case histories and a new chapter on specialist techniques has been included. Handy pocket-size for field research Features case histories Focuses on practical applications Contains a new chapter on groundwater investigations *Field Hydrogeology, Third Edition* is an invaluable resource for undergraduate and postgraduate students of geology, hydrogeology, environmental sciences and engineering, as well as a wide range of professionals working in the water resources and environmental protection fields.

Principles of Hydrogeology, Third Edition presents important concepts of groundwater hydrology with a strong emphasis on problem-solving and field applications of hydrogeology. With newly added and revised content, this volume maintains a broad and current scope of topics, from the history of hydrogeology to the latest trends in managing groundwater contamination, arranged in the most compact and easy-to-use format available. Topics of interest include the role of groundwater in the hydrologic cycle; the nature of water-bearing formations; drilling boreholes and constructing monitoring wells; aquifers, well hydraulics, and aquifer tests; groundwater chemistry and flow; groundwater pollution, contaminant transport, remediation, and management. The author also provides the most current sources of hydrogeologic information, including professional societies, groundwater organizations, government agencies, industry publications, and Internet sites that provide data, software, techniques, protocols, standards, and training opportunities. Concise and informative, environmental regulators as well as groundwater and hydrology professionals will find *Principles of Hydrogeology, Third Edition* a handy and irreplaceable source for looking up definitions, tools, and equations while working on groundwater problems.

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A thorough, up-to-date guide to groundwater science and technology Our understanding of the occurrence and movement of water under the Earth's surface is constantly advancing, with new models, improved drilling equipment, new research, and refined techniques for managing this vital resource. Responding to these tremendous changes, David Todd and new coauthor Larry Mays equip readers with a thorough and up-to-date grounding in the science and technology of groundwater hydrology. *Groundwater Hydrology, Third Edition* offers a unified presentation of the field, treating fundamental principles, methods, and problems as a whole. With this new edition, you'll be able to stay current with recent developments in groundwater hydrology, learn modern modeling methods, and apply what you've learned to realistic situations. Highlights of the Third Edition * New example problems and case studies, as well as problem sets at the end of each chapter. * A special focus on modern groundwater modeling methods, including a new chapter on modeling (Chapter 9), which describes the U. S. Geological Survey MODFLOW model. * Over 300 new figures and photos. * Both SI and U.S. customary units in the example problems. * Expanded coverage of groundwater contamination by chemicals. * New references at the end of each chapter, which provide sources for research and graduate study. Student and instructor resources for this text are available on the book's website at www.wiley.com/college/todd.

The technological advances of recent years include the emergence of new remote sensing and geographic information systems that are invaluable for the study of wetlands, agricultural land, and land use change. Students, hydrologists, and environmental engineers are searching for a comprehensive hydrogeologic overview that supplements information on hydrologic processes with data on these new information technology tools. *Environmental Hydrology, Second Edition* builds upon the foundation of the bestselling first edition by providing a qualitative understanding of hydrologic processes while introducing new methods for quantifying hydrologic parameters and processes. Written by authors with extensive multidisciplinary experience, the text first discusses the components of the hydrologic cycle, then follows with chapters on precipitation, stream processes, human impacts, new information system applications, and numerous other methods and strategies. By updating this thorough text with the newest analytical tools and measurement methodologies in the field, the authors provide an ideal reference for students and professionals in environmental science, hydrology, soil science, geology, ecological engineering, and countless other environmental fields.

Providing an introduction to the crucially important topic of groundwater, this text covers all major fields of hydrogeology and includes outlines of the occurrence of groundwater in various rock types, the movement and storage of groundwater, the formulation of groundwater balances, the development of groundwater chemistry, as well as the practical application of hydrogeology for groundwater development. Following a unique systems approach to describe and connect its various elements, the text also explores a large selection of examples of groundwater cases from various parts of the world. In addition, theoretical sections and examples are illustrated with a number of drawings, photos and computer printouts. Suitable for education in

hydrogeology at postgraduate and graduate level, the text is also a useful reference tool for professionals and decision-makers involved in water or water-related activities. In the revised paperback edition more attention is paid to the processes in the unsaturated zone, especially those relating to groundwater recharge. Also, the investigation methods are highlighted in the sections where the related theory is dealt with, and they are not presented in the last chapter on groundwater management. The References and Bibliography section is also extended, some figures are improved, and the inevitable 'typing errors' are corrected as well. In the third edition, a more formal basis for the hydro-chemical processes described in the chapter on groundwater chemistry has been added. Mass balances and the principles of dispersion and retardation are introduced. Additional illustrations are provided, also explaining the processes occurring along streamlines.

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

This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing, CO₂ 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.

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