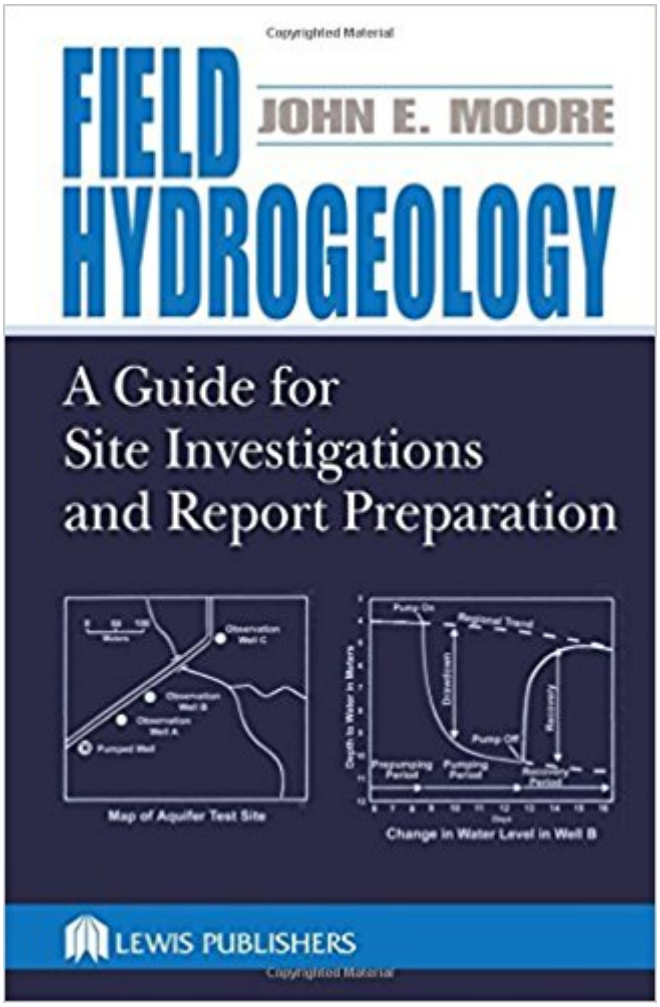
Field Hydrogeology: A Guide For Site Investigations And Report Preparation



Synopsis

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.

Book Information

Hardcover: 195 pages
Publisher: CRC Press; 1 edition (July 24, 2002)
Language: English
ISBN-10: 1566705878

ISBN-13: 978-1566705875

Product Dimensions: 9.7 x 6.1 x 0.7 inches

Shipping Weight: 1 pounds

Average Customer Review: 2.7 out of 5 stars 3 customer reviews

Best Sellers Rank: #1,191,690 in Books (See Top 100 in Books) #102 inÃ Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Drilling Procedures #338 inÃ Â Books > Science & Math > Nature & Ecology > Water Supply & Land Use #435 inÃ Â Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Water Quality & Treatment

Customer Reviews

Praise for the First Edition ... fills a great need to beginning hydrologists and hydrogeologists as a guide for site investigations and report preparation. It ... also contains a very interesting and important section on rules for professional conduct. ... It is a particularly good reference as the author, a geologist, identifies the important role that geologists play in the study of the source, occurrence, movement, quality, and quantity of groundwater. There [is] an excellent outline for the preparation of hydrogeologic reports. The last chapter provides four excellent case histories as good examples for a new hydrogeologist on his first assignment.Ã¢â ¬â ¢P.E. LaMoreaux, Editor-in-Chief, Environmental Geology (2003) 44:876 --This text refers to the Paperback edition.

John E. Moore, PhD, is an internationally recognized research scientist and hydrogeologist. He is currently an adjunct professor at Metro State College in Denver, Colorado, and presents short courses for the Geological Society of America and the International Association of Hydrogeologists. He has more than 50 years of experience as scientist, technical advisor, and senior hydrologist with the Water Resources Division of the U.S. Geological Survey (USGS) and the Environmental Protection Agency (EPA). Dr. Moore has served as an advisor to the EPA, Department of Energy, Department of Defense, U.S. Congress, and the State of Colorado. He is past president of the American Institute of Hydrology (AIH) and the International Association of Hydrogeologists (IAH), and associate editor of Environmental Geology. Dr. Moore received the Department of Interior Meritorious Service Award, AIH Founders award, IAH Honorary Members Award, and the National Groundwater Association Life Member Award. He is the author of 7 books and 50 scientific articles. Because of his contributions to hydrology and publications, he was presented an honorary doctor of science on October 5, 2010, at Ohio Wesleyan University. Dr. J.J. Carrillo-Rivera, PhD, is a

researcher at the Institute of Geography of the National Autonomous University of Mexico (UNAM). He is a Member of the National Academy of Sciences, a researcher and reviewer of CONACyT, a European Community External Advisor, and past President of the Mexican Chapter of the International Association of Hydrogeologists. He has an MSc in Hydrogeology from University College London and a PhD in Geology (Hydrogeology) from London University. Michael Wireman, MS, is a hydrogeologist with the U.S. Environmental Protection Agency in Denver, Colorado, where he is Regional Groundwater Expert. He has 21 years of experience in groundwater investigations in the Rocky Mountains. He has been project manager for private consulting firms and provides technical support to several Federal Agency programs. Wireman has a masterÃ¢â ¬â„¢s degree in Hydrogeology from Western Michigan University, USA. --This text refers to the Paperback edition.

The book, Field Hydrogeology, fills a great need to beginning hydrologists and hydrogeologists as a guide for site investigations and report prparation. It covers hydrogeologic concepts, aquifer materials, groundwater movement, recharge and discharge, and also contains a very interesting and important section on rules for professional conduct. The last chapter provides four excellent case histories as good examples for a new hydrogeologist on his first assignment.P.E. LaMoreaux Senior Editor, Environmenatal Geology Oct. 2003

I read Vance Matthews review of this book and was sceptical. The editorial reviews of this book gave me the impression it would be a concise collection of EPA, USGS, and ASTM standards related to hydrogeological investigations. I was greatly disappointed. At this point I am still unclear who the target audience would be for this book.

I did not find much use for this book. Anyone with appreciable experience performing hydrogeologic investigations will have little use for this text which presents a common-sense approach to planning, documenting and reporting hydrogeologic investigations.

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