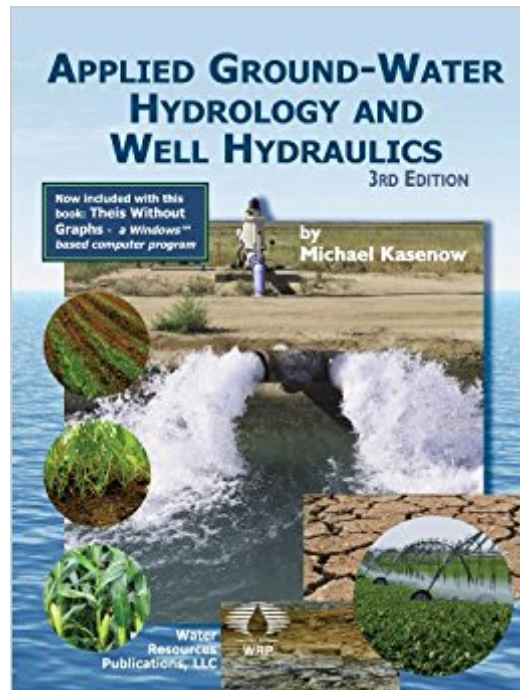




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Applied Groundwater Hydrology & Well Hydraulics



Synopsis

This third edition of Dr. Kasenow's highly acclaimed first edition provides review and application in regard to the mechanics of ground-water flow and aquifer analysis. Using common language and carefully constructed illustrations, this book has been written for those of us who think visually. The mathematics have been enhanced and thoroughly demonstrated through the use of many solved example problems that do not skip essential steps in the solution process. Chapters in the first half of the book emphasize ground-water hydrology. The second half of the book details aquifer analysis, a subject extremely important to almost every aspect of the ground-water industry. This book also includes and expands upon ground-water flow problems, fractured rock and karst aquifers, double porosity, flow nets, recharge and discharge functions of aquifers, step-drawdown tests, production well analysis, the storage coefficient, regression analysis, transmissive properties of aquifers, well field analysis, and much more. Almost all of the chapters have been expanded to include more detail, illustrations and solved problems. The AquiferTest for Windows Computer Program (Student Version) from Waterloo Hydrogeologic Inc., comes with the text. This edition has been expanded to detail the reality of ground-water flow, recharge and discharge functions of aquifers, pumping test basics, and coastal and island aquifers, it: 1-shows how the Theis Solution can be solved simply and without the curve. 2-provides a chapter on the theory and utility of the storage coefficient. 3-introduces an equation that solves for well interference drawdown in unconfined aquifers. 4-provides new methods in regard to step-drawdown tests, the utility of coefficients B and C, and the well performance equations. 5-shows how Darcy's Law, the Theis Equation and the Cooper-Jacob solution can be used to predict aquifer performance over time and distance. 6-provides a chapter on steady-flow problems. 7-shows how capture zone problems can be solved. 8-provides regression analysis as a solution process. 9-demonstrates how the storage coefficient can be obtained using recovery solutions. 10-provides chapters on production well performance. 11-provides a chapter on cost effective methods, including grain-size analysis and slug-and-bail down approximations. 12-completes the learning process with a chapter on well field analysis.

Book Information

Perfect Paperback: 820 pages

Publisher: Water Resources Pubns; Third edition (January 10, 2010)

Language: English

ISBN-10: 1887201629

ISBN-13: 978-1887201629

Product Dimensions: 1.8 x 8.5 x 10.8 inches

Shipping Weight: 4.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #1,742,234 in Books (See Top 100 in Books) #98 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Groundwater & Flood Control](#) #475 in [Books > Engineering & Transportation > Engineering > Mechanical > Hydraulics](#) #590 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Water Quality & Treatment](#)

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MICHAEL KASENOW possesses a wonderfully articulate yet pragmatic method of conveying his thoughts, intuitions and application of theory. His work stands the test of time. --Walter J. Bolt, Senior Project Manager, PM Environmental, Inc. Dr. Kasenow has shown both his creativity and drive to build on, rather than simply follow techniques developed by others. His books present relatively complex concepts in easy to understand graphic form without oversimplification. --Dana R. Unangst, Project Manager, Insight Environmental Services, Inc. As President of a consulting firm, I am always concerned with balancing costs and providing clients with complete and thorough data evaluations. Dr. Kasenow's practical application techniques have allowed my firm to complete thorough data evaluations at lower costs. Once one uses Dr. Kasenow's data evaluation programs, you are left with the feeling of 'why did I waste my time with other programs'? --Mark. B. Sweatman, CPG, President, Insight Environmental Services, Inc. Dr. Kasenow has shown both his creativity and drive to build on, rather than simply follow techniques developed by others. His books present relatively complex concepts in easy to understand graphic form without oversimplification. --Dana R. Unangst, Project Manager, Insight Environmental Services, Inc. As President of a consulting firm, I am always concerned with balancing costs and providing clients with complete and thorough data evaluations. Dr. Kasenow's practical application techniques have allowed my firm to complete thorough data evaluations at lower costs. Once one uses Dr. Kasenow's data evaluation programs, you are left with the feeling of 'why did I waste my time with other programs'? --Mark. B. Sweatman, CPG, President, Insight Environmental Services, Inc.

Dr. Michael Kasenow, one of WRP's highly regarded and respected authors, is the staff hydrogeologist in the Department of Geography and Geology at Eastern Michigan University. Dr.

Kasenow is an innovative researcher in the field of aquifer analysis, but more importantly, he is a ground-water consultant who actually does 'real world' work. He is a Certified Ground Water Professional (NGWA/AGWSE), and a Certified Professional Geologist (AIPG). He was a major player in the organization and development of the current hydrogeology and environmental analysis curriculum at EMU. For two year he was Director of Research for the Southeast Regional Ground Water Education in Michigan Center (SER-GEMS). He received his Bachelor of Science n Geology from EMU, and his MS and Ph.D. from Western Michigan University. His current research is primarily concerned with the estimation of aquifer parameters, and the relationship between lakes, rivers, wetlands and ground water. Dr. Kasenow's research in regard to aquifer analysis has appeared in the The Professional Geologist and in Environmental & Engineering Geoscience.

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A great book, very useful. Covers the subjects very well. Excellent for teaching and for problem examples. Recommended for groundwater practitioners.

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