



Applied Hydrogeology (4th Edition)

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Prentice Hall, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (NOTE:Each chapter concludes with Notation, Analysis, and Problems.) 1. Water. Water. Hydrology and Hydrogeology. The Hydrologic Cycle. Energy Transformations. The Hydrologic Equation. Hydrogeologists. Applied Hydrogeology. The Business of Hydrogeology (What Do Hydrogeologists Do All Day?) Sources of Hydrogeological Information. American Society of Testing and Materials Standards. Working the Problems. Solving Problems Using Spreadsheets. 2. Elements of the Hydrologic Cycle. Evaporation. Transpiration. Evapotranspiration. Condensation. Formation of Precipitation. Measurement of Precipitation and Snow. Effective Depth of Precipitation. Events during Precipitation. Events During Precipitation. Stream Hydrographs. Rainfall-Runoff Relationships. Duration Curves. Determining Ground-Water Recharge from Baseflow. Measurement of Streamflow. Manning Equation. 3. Properties of Aquifers. Matter and Energy (A Brief Review of Physics). Porosity of Earth Materials. Specific Yield. Hydraulic Conductivity of Earth Materials. Permeameters. Water Table. Aquifers. Water-Table and Potentiometric Surface Maps. Aquifer Characteristics. Compressibility and Effective Stress. Homogeneity and Isotropy. Gradient of the Potentiometric Surface. 4. Principles of Ground-Water Flow. Introduction. Mechanical Energy. Hydraulic Head. Head in Water of Variable Density. Force Potential and Hydraulic Head. Darcy's Law. Equations of Ground-Water Flow. Solution of Flow Equations. Gradient of Hydraulic Head. Relationship of Ground-Water-Flow Direction to...

Reviews

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