

Applied Hydrogeology (4th Edition)

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Reviews

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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 Gradh. Flow Lines and Flow Nets. Refraction of Flow Lines. Steady Flow in a Confined Aquifer. Steady Flow in an Unconfined Aquifer. 5. Ground-Water Flow to Wells. Introduction. Basic Assumptions. Radial Flow. Computing Drawdown Caused by a Pumping Well. Determining Aquifer Parameters from Time-Drawdown Data. Slug Tests. Estimating Aquifer Transmissivity from Specific Capacity Data. Intersecting Pumping Cones and Well Interference. Effect of Hydrogeologic Boundaries. Aquifer-Test Design. 6. Soil Moisture and Ground-Water Recharge. Introduction. Porosity and Water Content of Soil. Capillarity and the Capillary Fringe. Pore-Water Tension in the Vadose Zone. Soil Water. Theory of Unsaturated Flow. Water-Table Recharge. 7. Regional...

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