

## **Groundwater in the Nile Delta**

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Environmental chemistry Hydraulic engineering Environmental pollution Environmental Chemistry Hydrology/Water Resources Hydrogeology Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution

Monografía

This unique volume offers an up-to-date overview of all the main aspects of groundwater in the Nile Delta and its fringes, as well as latest research findings. The themes covered include:  $\cdot$  Nile Delta aquifer formation and its characteristics  $\cdot$  The use of the groundwater in the Nile Delta and its implications  $\cdot$  Sedimentology and hydrogeophysical characteristics  $\cdot$  Groundwater investigations and aquifer characterization using current direct resistivity and induced polarization  $\cdot$  Groundwater contamination and degradation  $\cdot$  Saltwater intrusion and its control  $\cdot$  Delineation of groundwater flow and seawater intrusion using various techniques, including onedimensional subsurface temperature profiles, geoelectrical resistivity, and integrated subsurface thermal regime and hydrogeochemical data  $\cdot$  Modeling of groundwater and of saltwater intrusion in the Nile Delta aquifer  $\cdot$ Excessive pumping and groundwater quality assessment for irrigation and drinking purposes  $\cdot$  Groundwater management for sustainability in the Nile Delta. The volume appeals to postgraduate students, researchers, scientists, professionals, decision makers and planners

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