



Problem Solving in Engineering Hydrology

By Dr Faris Gorashi Faris, Prof Isam Mohammed Abdel-Magid Ahmed, Dr Mohammed Isam Mohammed Abdel-Magid

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Objectives of the book are meant to fulfill the main learning outcomes for students registered in named courses, which covered the following: - Solving problems in hydrology and making decisions about hydrologic issues that involve uncertainty in data, scant/incomplete data, and the variability of natural materials. - Designing a field experiment to address a hydrologic question. - Evaluating data collection practices in terms of ethics. - Interpret basic hydrological processes such as groundwater flow, water quality issues, water balance and budget at a specific site at local and regional scales based on available geological maps and data sets. - Conceptualizing hydrogeology of a particular area in three dimensions and be able to predict the effects on a system when changes are imposed on it. Learning outcomes are expected to include the following: - Overview of essential concepts encountered in hydrological systems. - Developing a sound understanding of concepts as well as a strong foundation for their application to real-world, in-the-field problem solving. - Acquisition of knowledge by learning new concepts, and properties and characteristics of water. - Cognitive...



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