Submarine Groundwater (Hardback)

By Igor S. Zektser, Lorne G. Everett, Roald G. Dzhamalov

Taylor Francis Inc, United States, 2006. Hardback. Condition: New. Language: English . Brand New Book. Sustainable management of water resources is quickly increasing in importance on a global scale. An important piece of the puzzle is the characterization of marine water and determining its importance to geochemical budgets. To do this, submarine groundwater discharges must be carefully studied. Comprehensively exploring the subject, Submarine Groundwater presents quantitative data relating groundwater contribution to the water/salt balance of regional and global bodies of water. The authors examine different data-supported methods for studying submarine groundwater flow and discharge through case studies contributed by leading international scientists. They discuss the maintenance of optimal water, salt, temperature and hydrobiological regimes of inland seas and large lakes. The book covers subsurface water exchange between the land and sea as well as groundwater discharge to the seas. It also provides a review of experimental methods and numerical modeling that can be used for the evaluation of specific discharge data and the effect of groundwater on the salt balance of seas and oceans. Defining the field of marine hydrogeology as a science that studies submarine groundwater, its properties, circulation, and distribution, Submarine Groundwater delineates the role of quantitative assessment...

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