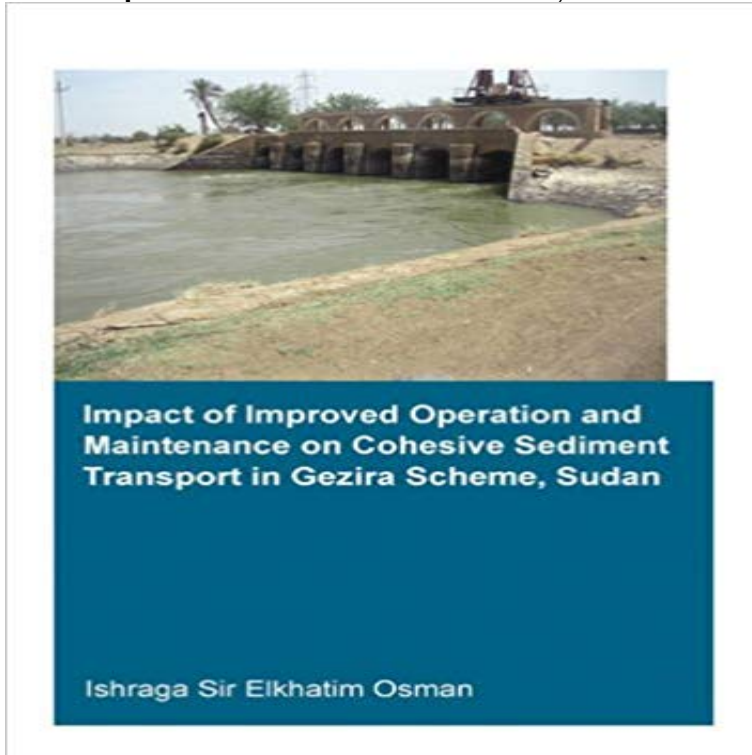


Impact of Improved Operation and Maintenance on Cohesive Sediment Transport in Gezira Scheme, Sudan



Irrigated agriculture remains to be the main option to boost the economy in Sudan in general. It can rise the living standard of the majority of the population; particularly those who are attached to farming and livestock. With the expected increase in population in the next decades, water management of large irrigation systems will become a key issue to increase productivity and assure future food security. Sediment transport in irrigation canals makes water management very complicated. This study focuses on water management in Gezira Scheme, Sudan. This scheme is irrigated from the Blue Nile River, which is characterized by a high sediment concentration. The aim of the study was to reduce the impact of fine sediment deposition in irrigation canals by improving the operation and maintenance procedures. A numerical model has been developed to simulate the cohesive sediment transport in irrigation canals. This model is a useful tool for the operators and decision makers to assess different options of operation in terms of sediment transport. This study found that sediment deposition in the canals can be minimized if the operation based on crop water requirement is adjusted at a certain period during the flood season.

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