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Titolo	Grand Ethiopian Renaissance Dam Versus Aswan High Dam : A View from Egypt // edited by Abdelazim M. Negm, Sommer Abdel-Fattah
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Nota di contenuto	Overviews of Aswan High Dam (AHD) and Grand Ethiopian Renaissance Dam (GERD) -- Environmental Impacts of AHD On Egypt Between The Last and The Following 50 Years -- Importance of Aswan High Dam to Egypt -- Impacts of Constructing the Grand Ethiopian Renaissance Dam on the Nile River -- Stochastic Investigation of the GERD-AHD Interaction Through First Impoundment and Beyond -- Model-Based Optimization for Operating the Ethiopian Renaissance Dam on the Blue Nile River -- GERD Failure Analysis and The Impacts on Downstream Countries -- Environmental Impacts of the GERD Project on Egypt's Aswan High Dam Lake and Mitigation and Adaptation options -- The Grand Ethiopian Renaissance Dam, Agriculture and the Rural Poor in Egypt -- Assessment of Sediment Deposition in High Aswan Dam Reservoir During 50 Years (1964-2014) -- Evaluation of Merowe Dam's Effect on The Accumulated Sediment In Lake Nubia, Sudan Using RS/GIS -- Impacts of GERD on the Accumulated Sediment in Lake Nubia Using Machine Learning and GIS Techniques -- Dredging the Clays of the Nile

– Potential Challenges and Opportunities on the Shores of the Aswan High Dam Reservoir and the Nile Valley in Egypt -- Community Development by De-silting the Aswan High Dam Reservoir -- Harvesting the Skies of Egypt – an Option to Recover the Evaporation Losses from the Aswan High Dam Reservoir -- Impact of the International Context on the Political and Legal Dimensions of the Aswan High Dam (1952-1960) -- Continuous Dispute Between Egypt and Ethiopia Concerning Nile Water and Mega Dams -- The Grand Ethiopian Renaissance Dam and the Ethiopian Challenge of Hydropolitical Hegemony on the Nile Basin -- Impact of the Grand Ethiopian Renaissance Dam (GERD) on Gezira Groundwater, Sudan -- Update, Conclusions and Recommendation of Grand Ethiopian Renaissance Dam Versus Aswan High Dam: a View from Egypt.

Sommario/riassunto

This unique volume discusses various aspects of the Grand Ethiopian Renaissance Dam (GERD) and the Aswan High Dam (AHD) including their positive and negative impacts. It presents up-to-date research findings by Egyptian scientists and researchers covering several interesting hot topics under the following main themes: · Major impacts of GERD compared with the AHD · Environmental impacts of the AHD · Modeling scenarios investigating the impacts of GERD on the AHD and downstream · Environmental and social impacts of GERD on Egypt · Status and assessment of the sediment of the AHD reservoir and modeling the impacts of GERD on Lake Nubia sediment accumulation · Proposed scenarios for maximizing the benefits of the AHD reservoir · International aspects of GERD and the AHD The volume also offers a set of conclusions and recommendations to optimize the cooperation between Egypt, Sudan, and Ethiopia. It appeals to postgraduate students, researchers, scientists, professionals and policy planners.
