Record Nr. UNINA9910789234403321 **Titolo** Challenges and opportunities in the hydrologic sciences / / Committee on Challenges and Opportunities in the Hydrologic Sciences, Water Science and Technology Board, Division on Earth and Life Studies, National Research Council of the National Academies Pubbl/distr/stampa Washington, District of Columbia:,: National Academies Press,, [2012] ©2012 **ISBN** 0-309-22286-9 0-309-22284-2 Descrizione fisica 1 online resource (200 p.) Disciplina 551.48 Soggetti Hydrology - Research Hydrology Hydrologic cycle Biotic communities Water quality Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Summary -- The hydrologic sciences -- The water cycle: an agent of Nota di contenuto change -- Water and life -- Clean water for people and ecosystems --Hydrologic sciences: a path forward -- [Appendixes]. "New research opportunities to advance hydrologic sciences promise a Sommario/riassunto better understanding of the role of water in the Earth system that could help improve human welfare and the health of the environment. Reaching this understanding will require both exploratory research to better understand how the natural environment functions, and problem-driven research, to meet needs such as flood protection, supply of drinking water, irrigation, and water pollution. Collaboration among hydrologists, engineers, and scientists in other disciplines will

be central to meeting the interdisciplinary research challenges outline

in this report. New technological capabilities in remote sensing, chemical analysis, computation, and hydrologic modeling will help

scientists leverage new research opportunities"--Publisher's description.