1. Record Nr. UNINA9910161651003321

Titolo	Integrated Groundwater Management [[electronic resource]] : Concepts, Approaches and Challenges / / edited by Anthony J Jakeman, Olivier Barreteau, Randall J Hunt, Jean-Daniel Rinaudo, Andrew Ross
Pubbl/distr/stampa	Cham, : Springer Nature, 2016 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	1-78684-323-4 3-319-23576-1
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XIII, 762 p. 101 illus.)
Disciplina	551.4
Soggetti	Hydrogeology Environmental management Economic growth Sustainable development Water Policy/Water Governance/Water Management Economic Growth Sustainable Development
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	From the Contents: Overview concepts, approaches and challenges of integrated groundwater management -- Disentangling the complexity of a groundwater dependent socio-ecological system -- The scale of the groundwater issue internationally -- Groundwater law -- Groundwater regulation and integrated water planning.
Sommario/riassunto	The aim of this book is to document for the first time the dimensions and requirements of effective integrated groundwater management (IGM). Groundwater management is a formidable challenge, one that remains one of humanity’s foremost priorities. It has become a largely non-renewable resource that is overexploited in many parts of the world. In the 21st century, the issue moves from how to simply obtain the water we need to how we manage it sustainably for future generations, future economies, and future ecosystems. The focus then

becomes one of understanding the drivers and current state of the groundwater resource, and restoring equilibrium to at-risk aquifers. Many interrelated dimensions, however, come to bear when trying to manage groundwater effectively. An integrated approach to groundwater necessarily involves many factors beyond the aquifer itself, such as surface water, water use, water quality, and ecohydrology. Moreover, the science by itself can only define the fundamental bounds of what is possible; effective IGM must also engage the wider community of stakeholders to develop and support policy and other socioeconomic tools needed to realize effective IGM. In order to demonstrate IGM, this book covers theory and principles, embracing: 1) an overview of the dimensions and requirements of groundwater management from an international perspective; 2) the scale of groundwater issues internationally and its links with other sectors, principally energy and climate change; 3) groundwater governance with regard to principles, instruments and institutions available for IGM; 4) biophysical constraints and the capacity and role of hydroecological and hydrogeological science including water quality concerns; and 5) necessary tools including models, data infrastructures, decision support systems and the management of uncertainty. Examples of effective, and failed, IGM are given. Throughout, the importance of the socioeconomic context that connects all effective IGM is emphasized. Taken as a whole, this work relates the many facets of effective IGM, from the catchment to global perspective.

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Titolo	Diabetes : a journal of the American Diabetes Association
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Disciplina	616
Soggetti	Diabetes Endocrinology Diabetes Mellitus Societies, Medical Diabete Endocrinologie Periodical Internet resource periodicals. Periodicals. Periodiques. Medical journal
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed