1. Record Nr. UNINA9910254124803321

Titolo	Advances in Hydroinformatics : SIMHYDRO 2014 / / edited by Philippe Gourbesville, Jean A. Cunge, Guy Caignaert
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2016
ISBN	981-287-615-4
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (616 p.)
Collana	Springer Water, , 2364-6934
Disciplina	627.0285
Soggetti	Engineering geology Engineering—Geology Foundations Hydraulics Environmental management Fluid mechanics Geoengineering, Foundations, Hydraulics Water Policy/Water Governance/Water Management Engineering Fluid Dynamics
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 at the end of each chapters.
Nota di contenuto	2D And 3D Modelling in German inland waterways -- Storm events of nice bay: A Numerical modeling of the interactions between wave, current and solid transport -- One-dimensional model for sediment transport: an application to the design of silt bsdins.- Evaluation of flow speed in urbanized areas and flood hazard mapping in flood risk prevention schemes -- Deterministic hydrological model for flood risk assessment of mexico city -- Vulnerability index for urban flooding: understanding social vulnerabilites and risks.
Sommario/riassunto	The book is a collection of extended papers which have been selected for presentation during the SIMHYDRO 2014 conference held in Sophia Antipolis in June 2014. The book focuses on the modeling and simulation of fast hydraulic transients, on 3D modeling, and on uncertainties and multiphase flows. The book explores both the limits and performances of actual models and also presents the most recent

developments based on new numerical schemes, high performance computing, multiphysics and multiscale, methods, and better interaction with field or scale models data. The book caters to practitioners, stakeholders, researchers and engineers in this field.