

1. Record Nr.	UNINA9910688583203321
Titolo	Hillslope and Watershed Hydrology // edited by Christopher Duffy, Xuan Yu
Pubbl/distr/stampa	Basel : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2018
ISBN	3-03842-952-X
Descrizione fisica	1 online resource (254 pages)
Disciplina	551.48
Soggetti	Watershed hydrology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>About the Special Issue Editors -- Preface to "Hillslope and Watershed Hydrology" -- Xuan Yu and Christopher J. Duffy / Watershed Hydrology: Scientific Advances and Environmental Assessments, doi: 10.3390/w10030288 -- Jamilatou Chaibou Begou, Seifeddine Jomaa, Sihem Benabdallah, Pibgnina Bazie, Abel Afouda and Michael Rode / Multi-Site Validation of the SWAT Model on the Bani Catchment: Model Performance and Predictive Uncertainty, doi: 10.3390/w8050178 -- Thomas Cornelissen, Bernd Diekkrüger and Heye R. Bogaen / Using High-Resolution Data to Test Parameter Sensitivity of the Distributed Hydrological Model HydroGeoSphere, doi: 10.3390/w8050202 -- Kyongho Son, Christina Tague and Carolyn Hunsaker / Effects of Model Spatial Resolution on Ecohydrologic Predictions and Their Sensitivity to Inter-Annual Climate Variability, doi: 10.3390/w8080321 -- Mushombe Muma, Alain N. Rousseau and Silvio J. Gumiere / Assessment of the Impact of Subsurface Agricultural Drainage on Soil Water Storage and Flows of a Small Watershed, doi: 10.3390/w8080326 -- Michelle Stern, Lorraine Flint, Justin Minear, Alan Flint and Scott Wright / Characterizing Changes in Streamflow and Sediment Supply in the Sacramento River Basin, California, Using Hydrological Simulation Program-FORTRAN (HSPF), doi: 10.3390/w8100432 -- Zhenyu Zhang, Yaling Huang and Jinliang Huang / Hydrologic Alteration Associated with Dam Construction in a Medium-Sized Coastal Watershed of Southeast China, doi: 10.3390/w8080317 -- Wei Li, Ke Zhang, Yuqiao Long and Li Feng / Estimation of Active Stream Network Length in a</p>

Hilly Headwater Catchment Using / Recession Flow Analysis, doi: 10.3390/w9050348 -- Hui Peng, Yangwen Jia, Christina Tague and Peter Slaughter / An Eco-Hydrological Model-Based Assessment of the Impacts of Soil and Water Conservation Management in the Jinghe River Basin, China, doi: 10.3390/w7116301 -- Zhenyu Zhang, Yaling Huang and Jinliang Huang / Hydrologic Alteration Associated with Dam Construction in a Medium-Sized Coastal Watershed of Southeast China, doi: 10.3390/w8080317 -- Yihan Tang, Qizhong Guo, Chengjia Su and Xiaohong Chen / Flooding in Delta Areas under Changing Climate: Response of Design Flood Level to NonStationarity in Both Inflow Floods and High Tides in South China, doi: 10.3390/w9070471 -- Zhi-Lei Yu, Deng-Hua Yan, Guang-Heng Ni, Pierre Do, Deng-Ming Yan, Si-Yu Cai, Tian-Ling Qin, Bai-Sha Weng and Mei-Jian Yang / Variability of Spatially Grid-Distributed Precipitation over the Huaihe River Basin in China, doi: 10.3390/w9070489 -- Yanyan Li, Honggang Wang, Jianping Chen and Yanjun Shang / Debris Flow Susceptibility Assessment in the Wudongde Dam Area, China Based on Rock Engineering System and Fuzzy C-Means Algorithm, doi: 10.3390/w9090669 -- Zhihua Zhu and Xiaohong Chen / Evaluating the Effects of Low Impact Development Practices on Urban Flooding under Different Rainfall Intensities, doi: 10.3390/w9070548.

Sommario/riassunto

Watershed hydrology is driven by climate forcing, near ground surface characteristics, and human activities, addressing a wide spectrum of environmental and water resource problems regarding both scientific-driven questions and practical engineering issues. This book collates watershed problems and solutions from around the world covering diverse climate types. These cases show complex interactions between hydrological processes and environmental conditions and scientific methods for understanding the hydrological regime and management of human activities. This book can be used as a state-of-the-art resource for academic researchers and water resource professionals, and will also appeal to students, scholars, and general readers interested in watershed models, water management, environmental management, climate change impact assessment, or ecohydrologic interactions.
