

1. Record Nr.	UNINA9910141332303321
Autore	Beven K. J
Titolo	Rainfall-runoff modelling [[electronic resource]] : the primer / / Keith Beven
Pubbl/distr/stampa	Hoboken, : Wiley, 2012
ISBN	1-280-58613-3 9786613615961 1-119-95100-3 1-119-95101-1
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (xxix, 457 p.) : ill
Disciplina	551.48/8
Soggetti	Runoff - Mathematical models Rain and rainfall - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface to the 2nd edition -- Down to basics : runoff processes and the modelling process -- Evolution of rainfall-runoff models : survival of the fittest? -- Data for rainfall-runoff modelling -- Predicting hydrographs using models based on data -- Predicting hydrographs using distributed models based on process descriptions -- Hydrological similarity, distribution functions and semi-distributed rainfall-runoff models -- Parameter estimation and predictive uncertainty -- Beyond the primer : models for changing risk -- Beyond the primer : next generation hydrological models -- Beyond the primer : predictions in ungauged basins -- Beyond the primer : water sources and residence times in catchments -- Beyond the primer : hypotheses, measurements and models of everywhere.
Sommario/riassunto	Rainfall-Runoff Modelling: The Primer, second edition is the follow-up of this popular and authoritative text, first published in 2001. The book provides both a primer for the novice and detailed descriptions of techniques for more advanced practitioners, covering rainfall-runoff models and their practical applications. This new edition extends these aims to include additional chapters dealing with prediction in ungauged basins, predicting residence time distributions, predicting the impacts

of change and the next generation of hydrological models. Giving a comprehensive summary of available techniques based on established practices and recent research the book offers a thorough and accessible overview of the area. Rainfall-Runoff Modelling: The Primer second edition focuses on predicting hydrographs using models based on data and on representations of hydrological process. Dealing with the history of the development of rainfall-runoff models, uncertainty in model predictions, good and bad practice and ending with a look at how to predict future catchment hydrological responses this book provides an essential underpinning of rainfall-runoff modelling topics. Fully revised and updated version of this highly popular text; Suitable for both novices in the area and for more advanced users and developers; Written by a leading expert in the field; Guide to internet sources for rainfall-runoff modelling software.
