



Progress in Modern Hydrology: Past, Present and Future

John C. Rodda, Mark Robinson

E-Book	ISBN: 978-1-119-07431-1	July 2015	£79.99
Hardcover	ISBN: 978-1-119-07427-4	August 2015	£88.50
O-Book	ISBN: 978-1-119-07430-4	August 2015	Available on Wiley Online Library

DESCRIPTION

Hydrology is vital to human civilisations as well as to natural ecosystems, yet it has only emerged as a distinct scientific discipline during the last 50 years or so. This book reviews the development of modern hydrology primarily through the experiences of the multidisciplinary team of scientists and engineers at Wallingford, near Oxford, who have been at the forefront of many of the developments in UK hydrological research. These topics include:

- The development of basic understanding through the collection of data with specialised instrumentation in experimental basins
- The study of extreme flows – both floods and droughts
- The role moisture in the soil
- Studies of the processes controlling evaporation
- Water resource studies
- Modelling and prediction of the extremes of flow improved
- Understanding of water quality issues
- A widening recognition of the importance of an ecosystem approach
- Meeting the challenges of climate change,
- Data handling

- Future developments in hydrology and the pressures which generate them.

Readership: hydrologists in both academia and a wide range of applied fields such as civil engineering, meteorology, geography and physics, as well as advanced students in earth science, environmental science and physical geography programmes worldwide.

ABOUT THE AUTHOR

John Rodda has a life time of experience as a hydrologist with UK governmental and international bodies, particularly the World Meteorological Organization, Geneva, where he was Director of the Hydrology & Water Resources Department. He has authored some 100 scientific papers and 8 books on a wide range of topics. He has held the office of President of the International Association of Hydrological Sciences and several other prominent positions in the international world of water.

Mark Robinson has a lengthy career as a hydrologist, working at the Centre for Ecology and Hydrology, Institute of Hydrology and at several UK universities. His work has encompassed land use change studies including agricultural drainage and forest hydrology, and for over a decade he was responsible for some of the UK's longest running catchment studies. He has published extensively and is co-author of two highly regarded hydrological textbooks.

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