About the Book

This book contains 22 articles selected form over 200 oral and poster papers presented at the international conference on headwater control held at Bergen. Norway, sixth of its kind (IHC6) belonging to a tradition established at the first international conference in Prague in 1980 and developed through subsequent meetings at various places in Europe Asia and Africa. The articles of this book are updated and peer reviewed for inclusion in this volume as proceedings of the IHC6 conference. The issues of water use and water management in different parts of Europ Africa and Asia have been the central theme of most of the articles, which are divided into four sections: sustainable watershed management; Catchment and stream flow hydrology; quality, pollution and management of water resources; and monitoring and mitigation of disasters. The chapters incorporate the results of studies on integrated and sustainable watershed management, socio-economic issues, participatory process in headwater management, control of water pollution, and monitoring and mitigation of various disasters in different mountain watersheds of Asia, Africa and Europe.

Contents:

Section A Sustainable watershed management

- **1.** Sustainable management of headwater resources
- **2.** Social science contributions multiple objective decision making within watersheds
- **3.** Managing headwater regions in Australia : Assessing socio-economic and resource sustainability
- **4.** Building co-operations, coalitions and government on mountain catchments sustainability
- **5.** Developing sustainability priorities with a participatory process: Lake Victoria basin east Africa
- **6.** Management of headwaters in acidified areas along with the west coast of Norway

Section B catchment and streamflow hydrology

- **7.** Monitoring for modeling reality and sound economics
- 8. The Nile headwaters: Wetlands and catchments in Highland Ethiopia
- **9.** Changing flow in the Okavango Basin: Upstream developments and Downstream effects
- 10. Bedrock groundwater as a major control on streamflow generation in Upland Wales, UK
- **11.** CRENODAT (Biodiversity assessment and integrity evaluation of springer of trentio and long-term ecological research): project design and preliminary results

Section C Quality, pollution and management of water resources

- **12.** Water ad a symbol of national identify in Norway
- 13. Assessing renewable water resources and water use in Angola
- **14.** Water management issues in middle mountain catchments of the Nepal Himalayas: The Downstream perspective