

1. Record Nr.	UNINA9910971862503321
Autore	Newson Malcolm David
Titolo	Land, water, and development : sustainable management of river basin systems // Malcolm Newson
Pubbl/distr/stampa	London ; ; New York, : Routledge, 1997
ISBN	1-134-73230-9 1-134-73231-7 1-280-31831-7 0-203-44352-7 9786610318315
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (460 p.)
Disciplina	333.91/15
Soggetti	Watershed management Water resources development Sustainable development
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 and index.
Nota di contenuto	Cover; Title; Copyright Page; Contents; List of plates; List of figures; List of tables; Preface to the first edition; Preface to the second edition; Acknowledgements; Prologue; 1 History of river basin management; 1.1 Hydraulic cultures and religious codes: management in advance of science; 1.2 The rise of hydraulics and hydrology; 1.3 Monks, mills and mines: origins of river coordination in England; 1.4 The rise of environment; 1.5 The lessons of history and the challenges of the future; 2 Natural river basins: transfer systems; 2.1 Flow of water and transport of sediment 2.2 Channel morphology 2.3 Floodplains; 2.4 Basin sediment systems; 2.5 Summary: key elements of the natural system, a sensitivity assessment; 3 Land and water: interactions; 3.1 Vegetation, soils and hydrology; 3.2 Groundwater exploitation and protection; 3.3 Runoff modifications in developed river basins; 3.4 Vegetation, soils and water quality; 3.5 Conclusions; 4 Managing land and water in the developed world: an international survey; 4.1 Development and the river basin; 4.2 River basin management in the USA; 4.3 Canadian river basin

management; 4.4 Australia: a lesson learned late  
4.5 New Zealand: wise management determined by hazard  
4.6 Conclusions: national priorities in the developed world; 5 River basins and development; 5.1 General characteristics and new philosophies; 5.2 Problems of food, power and trade in drylands; 5.3 River basin management in Iran: the Zayandeh Rud example; 5.4 The Nile: a definitive case of hydropolitics; 5.5 River basin development authorities: experience elsewhere in Africa; 5.6 The land-use dimension: Himalayan headwaters and the Indian subcontinent; 5.7 Dams, alternatives and the need for a new international order  
5.8 Development and rivers: broad trends  
6 Technical issues in river basin management; 6.1 Soil erosion; 6.2 Dams: problems of sedimentation and river regulation; 6.3 Irrigation: land, water and people; 6.4 Conservation and restoration of river channels and wetlands; 6.5 Climatic change and river basin management; 6.6 Conclusions; 7 Institutional issues in river basin management; 7.1 Basin authorities: the influence of the TVA; 7.2 Does an ideal river basin management institution exist?; 7.3 Case study: sustainable basin management and UK water institutions  
7.4 River basin units: land drainage leads the way  
7.5 Issues of resources and pollution; 7.6 Private or public? Economics and environment as institutional forces; 7.7 River basin institutions and developing nations; 7.8 Environmental assessment and management of water projects: worldwide panacea?; 7.9 International river basin management; 7.10 Conclusions: sustainability and subsidiarity-institutions which can plan basin development; 8 Sustainable river basin management: issues of the knowledge base; 8.1 Science in the 'New Environmental Age'; 8.2 The environmental sciences  
8.3 'Science speaks to power'

---

### Sommario/riassunto

This is a fully revised and expanded second edition of Malcolm Newson's acclaimed book. Exploring in greater depth the meaning of sustainability in river basin development this new edition:\* highlights the rapid evolution of practical concepts since the Rio Earth Summit\* features new illustrations and case studies from Australia, South Africa and Israel\* makes the ecosystem model more explicit throughout\* strengthens coverage of the linkages between land and water management.

---