

Contents

1	Water, Governance, and Infrastructure for Enhancing Climate Resilience	1
	Cecilia Tortajada	
2	Enhancing Water Governance for Climate Resilience: Arizona, USA—Sonora, Mexico Comparative Assessment of the Role of Reservoirs in Adaptive Management for Water Security	15
	Christopher A. Scott and America N. Lutz-Ley	
3	The Murray–Darling Basin: Climate Change, Infrastructure, and Water	41
	Jamie Pittock	
4	Climate Change Adaptation, Water Infrastructure Development, and Responsive Governance in the Himalayas: The Case Study of Nepal’s Koshi River Basin	61
	Shahriar M. Wahid, Aditi Mukherji and Arun Shrestha	
5	Building Pakistan’s Resilience to Flood Disasters in the Indus River Basin	81
	Guillermo Mendoza and Zarif Khero	
6	Yellow River: Re-operation of the Infrastructure System to Increase Resilience to Climate Variability and Changes	111
	Yangbo Sun and Xinfeng Fu	
7	The Durance-Verdon River Basin in France: The Role of Infrastructures and Governance for Adaptation to Climate Change	129
	Emmanuel Branche	
8	Sobradinho Reservoir: Governance and Stakeholders	157
	Antonio Augusto B. Lima and Fernanda Abreu	

9 Adaptation and Mitigation Measures for High-Risk Dams, Considering Changes in Their Climate and Basin 179
Victor H. Alcocer-Yamanaka and Rodrigo Murillo-Fernandez

10 Seyhan Dam, Turkey, and Climate Change Adaptation Strategies 205
Bülent Selek, Dilek Demirel Yazici, Hakan Aksu
and A. Deniz Özdemir

11 Lake Nasser: Alleviating the Impacts of Climate Fluctuations and Change 233
Asit K. Biswas

12 Greater Security with Less Water: Sterkfontein Dam’s Contribution to Systemic Resilience. 251
Mike Muller

Index 279