

Contents

Foreword by Kuniyoshi Takeuchi	vii
Foreword by Worsak Kanok-Nukulchai	ix
Preface.....	xi
Acknowledgments.....	xiii
Editors.....	xv
Contributors	xvii
Chapter 1 Global Climate System, Energy Balance, and the Hydrological Cycle	1
<i>Sangam Shrestha and Prasamsa Singh</i>	
Chapter 2 Climate Variability and Change.....	31
<i>Anthony S. Kiem</i>	
Chapter 3 Detection and Attribution of Climate Change	69
<i>H. Annamalai</i>	
Chapter 4 Uncertainty in Climate Change Studies.....	81
<i>Satish Bastola</i>	
Chapter 5 Climate Change Impacts on Water Resources and Selected Water Use Sectors	109
<i>Mukand S. Babel, Anshul Agarwal, and Victor R. Shinde</i>	
Chapter 6 Economics of Climate Change.....	153
<i>Sujata Manandhar, Vishnu Prasad Pandey, Futaba Kazama, and So Kazama</i>	
Chapter 7 Climate Change Vulnerability Assessment.....	183
<i>Vishnu Prasad Pandey, Sujata Manandhar, and Futaba Kazama</i>	
Chapter 8 Climate Change Adaptation in Water	209
<i>S.V.R.K. Prabhakar, Binaya Raj Shivakoti, and Bijon Kumer Mitra</i>	

Chapter 9	Managing Climate Change Impacts on Water Resources and Decision Support	239
	<i>Julian Doczi</i>	
Chapter 10	Transboundary River Systems in the Context of Climate Change	291
	<i>Soni M. Pradhanang and Nihar R. Samal</i>	
Chapter 11	International Negotiations on Climate Change and Water	331
	<i>Binaya Raj Shivakoti and Sangam Shrestha</i>	
Index.....		359