Contents

Part I Introduction
1 Land Use Management in Disaster Risk Reduction: 
   An Overview ................................................................. 3 
   Rajib Shaw and Michiko Banba
2 Land Use Management and Risk Communication ................. 13 
   Michiko Banba

Part II Urban Issues in Land Use
3 Experiences of Japan in Post-Hanshin-Awaji Earthquake .......... 21 
   Michiko Banba
4 The Reconstruction of Bhuj: Reflecting on the Planning Process ...... 31 
   Balakrishnan R. Balachandran
5 Land Use Management Along Fault Line: 
   Experiences of New Zealand ............................................. 63 
   Michiko Banba
6 Experience from the United States: Post-Katrina and Sandy .......... 79 
   Elizabeth Maly, Tamiyo Kondo, and Michiko Banba
7 Integrated Land Use Planning in New Zealand 
   and Canterbury Earthquakes .............................................. 107 
   Ljubica Mamula-Seadon
8 The Rapid Development of Settlements in Flood-Prone 
   Areas in Peri-Urban Ulaanbaatar, Mongolia: Monitoring 
   and Spatial Analysis Using VHR Satellite Imageries ............... 137 
   Izuru Saizen and Narumasa Tsutsumida
9 Integration of Disaster Risk Reduction into Land Use Planning: Experience of Bangladesh ........................................ 149
Sunil Prashar and Md. Anisur Rahman

Part III Mountain Issues in Land Use

10 Flood Disasters and Land Use Planning in Swat Valley, Eastern Hindu Kush ......................................................... 179
Atta-ur-Rahman, Farzana, Ghani Rahman, and Rajib Shaw

11 Guinsaugon, Leyte Landslide: Experience and Lessons in Land Use Policy ............................................................... 197
Noralene Uy, Benigno Balgos, and Rajib Shaw

12 Japan’s Experiences of Catastrophic Mountain Disasters in Wakayama ................................................................. 215
Yohei Chiba, Rajib Shaw, and Michiko Banba

13 Uttarakhand Disaster and Land Use Policy Changes .................. 237
Genta Nakano, Piyoosh Rautela, and Rajib Shaw

14 Climate Change and Its Impacts on Land Use/Cover Change and Food Security in Nepal ........................................... 253
Shobha Poudel and Rajib Shaw

15 Post-Morakot Land Use Implications for Taiwan .................. 271
Jet-Chau Wen, Shao-Yang Huang, Chia-Chen Hsu, Yu-Ju Lin, Mu-Fan Tsai, Tsui-Ping Chang, Chia-Yen Ho, Mei-ching Hsiao, Meng-Hsin Shih, Jui-Hung Hung, and Yi-Chun Liu

Part IV Coastal Issues in Land Use

16 The Indian Ocean Tsunami and Land Use Changes in Indonesia ................................................................. 297
Syamsidik and Fachrul Fikri

17 Land Use and Land Cover Change Analysis Using Multi-date Multispectral Satellite Data: An Integrated Study of South Chennai in Tamil Nadu State, India ........................................... 311
M. Arunprakash, M. Jayaprakash, S. Nethaji, and R.R. Krishnamurthy

18 The Great East Japan Earthquake and Tsunami: Lessons for Land Use ................................................................. 325
Yuko Araki, Akihiko Hokugo, and Satoru Masuda

19 Land Use Change Implications on Ba Ria-Vung Tau Province in Vietnam ................................................................. 353
Tho Tran, Rajib Shaw, and Michiko Banba
20 Land Use Change in Southwestern Coastal Bangladesh: Consequence to Food and Water Supply .............................................. 381
Gulsan Ara Parvin, Md. Hashan Ali, Kumiko Fujita,
Md. Anwarul Abedin, Umma Habiba, and Rajib Shaw

Part V River Issues in Land Use

21 Flood Disaster Mitigation Measures Through Land Use Management in the UK and France........................................ 405
Yasushi Yoshida and Michiko Banba

22 River Basin and Land Use Lessons from Japan: Influences of Changes of Industrial Structure on Land Use of Nagara Basin and Flood Risk Control .................... 449
Michiko Banba

23 River Basin and Land Use Lessons from Bangkok, Thailand .......... 463
Wijitbusaba Ann Marome