

Contents

<i>List of contributors</i>	page vii
<i>Preface</i>	xi
<i>Acknowledgements</i>	xiii
<i>Foreword: The backloop to sustainability</i> C.S. Holling	xv
1 Introduction <i>Fikret Berkes, Johan Colding, and Carl Folke</i>	1
Part I Perspectives on resilience	31
2 Adaptive dancing: interactions between social resilience and ecological crises <i>Lance H. Gunderson</i>	33
3 Nature and society through the lens of resilience: toward a human-in-ecosystem perspective <i>Iain J. Davidson-Hunt and Fikret Berkes</i>	53
4 Redundancy and diversity: do they influence optimal management? <i>Bobbi Low, Elinor Ostrom, Carl Simon, and James Wilson</i>	83
Part II Building resilience in local management systems	115
5 The strategy of the commons: history and property rights in central Sweden <i>Lars Carlsson</i>	116
6 Management practices for building adaptive capacity: a case from northern Tanzania <i>Maria Tengö and Monica Hammer</i>	132
7 Living with disturbance: building resilience in social-ecological systems <i>Johan Colding, Thomas Elmqvist, and Per Olsson</i>	163
Part III Social-ecological learning and adaptation	187
8 Exploring the role of local ecological knowledge in ecosystem management: three case studies <i>Madhav Gadgil, Per Olsson, Fikret Berkes, and Carl Folke</i>	189

9	Facing the adaptive challenge: practitioners' insights from negotiating resource crises in Minnesota	<i>Kristen Blann, Steve Light, and Jo Ann Musumeci</i>	210
10	Caribou co-management in northern Canada: fostering multiple ways of knowing	<i>Anne Kendrick</i>	241
Part IV	Cross-scale institutional response to change		269
11	Dynamics of social–ecological changes in a lagoon fishery in southern Brazil	<i>Cristiana S. Seixas and Fikret Berkes</i>	271
12	Keeping ecological resilience afloat in cross-scale turbulence: an indigenous social movement navigates change in Indonesia	<i>Janis B. Alcorn, John Bamba, Stefanus Masiun, Ita Natalia, and Antoinette G. Royo</i>	299
13	Policy transformations in the US forest sector, 1970–2000: implications for sustainable use and resilience	<i>Ronald L. Trosper</i>	328
14	Synthesis: building resilience and adaptive capacity in social–ecological systems	<i>Carl Folke, Johan Colding, and Fikret Berkes</i>	352
	<i>Index</i>		388