## Table of Contents

Preface Acknowledgments Summary	x xiii 1		
		Chapter 1. Introduction and Conceptual Framework	26
		Introduction	26
Overview of Conceptual Framework	34		
The Multiscale Approach	43		
Types of Knowledge Assessed	44		
Minimizing Structural Biases	45		
Use in Decision-making	47		
Chapter 2. Ecosystems and Their Services	49		
Introduction	49		
Ecosystems Boundaries and Categories	50		
Ecosystem Services	53		
Biodiversity and Ecosystem Services	60		
Ecosystem Condition and Sustainable Use	62		
Chapter 3. Ecosystems and Human Well-being	71		
Introduction	72		
Key Components of Human Well-being	73		
Linkages between Ecosystem Services and Human Well-being	76		
Substitutability and Well-being	79		
Balancing Priorities: Present Versus Future	81		
Institutions and Freedoms	82		
Conclusion	83		
Chapter 4. Drivers of Change in Ecosystems and Their Services	85		
Introduction	86		
Previous Approaches on the Factors of Change	88		
Drivers: An Overview	90		
The Decision-maker within the Ecosystem	91		
Ecosystem Consequences of Decisions Outside an Ecosystem	94		
Drivers of Ecosystem Change	96		
Interactions among Drivers	104		

Chapter 5. Dealing with Scale	107
Introduction	101
Why Scale Matters	110
Changing Scales	112
Space and Time Domains	114
Inertia in Human and Ecological Systems	117
Viewing a Particular Scale in Context	118
Scales in Ecological and Human Systems	119
Scale and Policy	122
Guidance for Multiscale Assessments	124
Chapter 6. Concepts of Ecosystem Value and Valuation Approaches	127
Introduction	128
The Utilitarian Approach and Economic Valuation Methods	130
Non-utilitarian Value	139
Conclusion	147
Chapter 7. Analytical Approaches	148
Introduction	149
Data	152
Units of Analysis and Reporting	159
Modeling Issues	162
Scenario Analysis	166
Overarching Issues Conclusion	173 177
Conclusion	111
Chapter 8. Strategic Interventions, Response Options, and Decision-making	178
Introduction	179
Decision-making Processes	180 183
Response Options and Strategic Interventions Usable Knowledge	187
Dealing with Risk and Uncertainty	193
Decision Analytical Frameworks and Tools	195
·	
Appendix 1. Authors	201
Appendix 2. Reviewers	206
Appendix 3. Abbreviations and Acronyms	207
Appendix 4. Glossary	208
Bibliography	217
Index	236