## Contents

Appendix of Sources xi
Editors' Introduction: Complexity in Organization Studies xxi
   Stig O. Johannessen and Lesley Kuhn

### Volume I: Ways of Thinking about Complexity

Introduction: Ways of Thinking about Complexity xxv
   Stig O. Johannessen and Lesley Kuhn

#### I. Scientific Ideas and Philosophical Treatments

1. Time, Structure and Fluctuations
   *Ilya Prigogine* 3

2. From the Concept of System to the Paradigm of Complexity
   *Edgar Morin* (Translated by *Sean Kelly*) 29

3. What Is Complexity?
   *Murray Gell-Mann* 45

4. Evolving Complexity in Social Science
   *Peter M. Allen* 51

5. Emergence: A Construct Amid a Thicket of Conceptual Snares
   *Jeffrey Goldstein* 83

6. Poststructuralism, Complexity and Poetics
   *Michael Dillon* 99

7. Phenomenal Complexity Theory as Informed by Bergson
   *Hugo Letiche* 125

8. Complexity, Cybernetics and Human Knowing
   *Lesley Kuhn* 139

9. The Challenge of Complexity: Unfolding the Ethics of Science
   In Memoriam Ilya Prigogine
   *Isabelle Stengers* 153

10. Complexity, Deconstruction and Relativism
    *Paul Cilliers* 167

11. Challenges of Complexity in the 21st Century:
    An Interdisciplinary Introduction
    *Klaus Mainzer* 181

#### II. Sociological Treatments and Criticism

    a Sociological Transformation of the Philosophy of Praxis
    *Hans Joas* (Translated by *Raymond Meyer*) 201
Contents

13. A Poetics of Relational Forms: The Sociality of Everyday Social Life 217
   John Shotter
14. The Shifting Concept of the Self 233
   Ian Burkitt
15. Complexity Theory: An Exploration and Overview Based on John Holland's Work 255
   Michael Agar
16. Present, Past, and Future: Conjugating George Herbert Mead's Perspective on Time 275
   Michael G. Flaherty and Gary Alan Fine
17. The Idea of Social Time in Norbert Elias 289
   Simonetta Tabboni
18. Romantic and Baroque Conceptions of Complex Wholes in the Sciences 311
   Chunglin Kwa
19. The Problem of the Attractor: A Singular Generality between Sciences and Social Theory 335
   Adrian Mackenzie
   Lesley Kuhn

Volume II: Theorizing Complexity in Organization Studies

Introduction: Theorizing Complexity in Organization Studies vii
   Stig O. Johannessen and Lesley Kuhn

I. Methodological Issues

21. From Complexity Science to Complex Thinking: Organization as Simple Location 3
   Robert Chia
22. Complexity, Epistemology, and the Challenge of the Future 31
   Alfonso Montuori
23. Why Study the Complexity Sciences in the Social Sciences? 43
   K. Michael Mathews, Michael C. White and Rebecca G. Long
24. Boundaries, Hierarchies and Networks in Complex Systems 67
   Paul Cilliers
25. When Modeling Social Systems, Models ≠ the Modeled: Reacting to Wolfram's a New Kind of Science 79
   Michael R. Lissack and Kurt A. Richardson
26. Complex Thinking, Complex Practice: The Case for a Narrative Approach to Organizational Complexity 95
   Haridimos Tsoukas and Mary Jo Hatch
   Jacco Van Uden, Kurt A. Richardson and Paul Cilliers