Contents

Foreword ix
Preface xi
About the Contributors xv

1 Path Creation as a Process of Mindful Deviation 1
   Raghu Garud and Peter Karnoe

   I PATH DEPENDENCE AND BEYOND

2 When and How Chance and Human Will Can Twist 41
   the Arms of Clio: An Essay on Path-Dependence in a
   World of Irreversibilities
   Andrea P Bassanini and Giovanni Dosi

3 Unpacking Path Dependence: Differential Valuations 69
   Accorded History Across Disciplines
   Paul M. Hirsch and James J. Gillespie

4 Sources of Technical Change: Induced Innovation, 91
   Evolutionary Theory, and Path Dependence
   Vernon W. Ruttan

   II FROM PATH DEPENDENCE TO PATH CREATION

5 Paths and Regions: The Creation and Growth of Silicon Valley 127
   Martin Kenney and Urs von Burg
6 Standards, Modularity, and Innovation: The Case of Medical Practice
Richard N. Langlois and Deborah A. Savage

7 Complexity, Attractors, and Path Dependence and Creation in Technological Evolution
Joel A. C. Baum and Brian S. Silverman

III PATH CREATION AS CO-EVOLUTION

8 America's Family Vehicle: Path Creation in the U.S. Minivan Market
Joseph F. Porac, José Antonio Rosa, Jelena Spanjol, and Michael Scott Saxon

9 The Construction of New Paths: Institution-Building Activity in the Early Automobile and Biotech Industries
Hayagreeva Rao and Jitendra Singh

10 Constructing Transition Paths Through the Management of Niches
René Kemp, Arie Rip, and Johan Schot

IV PATH CREATION AS MOBILIZATION

11 Show-and-Tell: Product Demonstrations and Path Creation of Technological Change
Joseph Lampel

12 Innovation as a Community-Spanning Process: Looking for Interaction Strategies to Handle Path Dependency
Bart Van Looy, Koenraad Debackere, and René Bouwen

13 Technologies of Managing and the Mobilization of Paths
Jan Mouritsen and Niels Dechow

14 Why Do You go to a Piano Store to Buy a Synthesizer: Path Dependence and the Social Construction of Technology
Trevor Pinch

Author Index

Subject Index