Contents

List of figures viii
List of tables x
List of contributors xi
Prefatory note xv

Introduction
FRANCO MALERBA AND STEFANO BRUSONI 1

Part 1: Innovation and economic growth 25
1 Understanding economic growth as the central task of economic analysis
RICHARD R. NELSON 27
2 Innovation and economic growth theory: a Schumpeterian legacy and agenda
BART VERSPAGEN 42
Comments to Chapters 1 and 2
JAN FAGERBERG 64

Part 2: The microdynamics of the innovation process 71
3 Schumpeter's prophecy and individual incentives as a driver of innovation
WESLEY M. COHEN AND HENRY SAUERMANN 73
4 Creative destruction in the PC industry
TIMOTHY BRESNAHAN 105
Comments to Chapters 3 and 4
ASHISH ARORA 141
Contents

Part 3: Innovation and industrial dynamics

5 Statistical regularities in the evolution of industries: a guide through some evidence and challenges for the theory
GIOVANNI DOSI

6 Spin-off entry in high-tech industries: motives and consequences
STEVEN KLEPPER AND PETER THOMPSON

Comments to Chapters 5 and 6
LUIGI ORSENTGO

Part 4: Innovation and institutions

7 Schumpeterian innovation in institutions
MASAHIKO AOKI

8 Innovation and Europe's academic institutions - second thoughts about embracing the Bayh-Dole regime
PAUL A. DAVID

Comments to Chapters 7 and 8
BENGT-AKE LUNDVALL

Part 5: Innovation, firms' organization, and business strategies

9 Bringing selection back into our evolutionary theories of innovation
DANIEL A. LEVINTHAL

10 From leadership to management: mobilizing knowledge for innovation in strategic alliances
YVES L. DOZ, ANDREA CUOMO, AND JULIE WRAZEL

Comments to Chapters 9 and 10
SIDNEY G. WINTER

Part 6: Innovation and entrepreneurship

11 Schumpeterian legacies for entrepreneurship and networks: the social dimensions of entrepreneurial action
PIERA MORLACCHI
Contents vii

12 Knowledge-based entrepreneurship: the organizational side of technology commercialization
ULRICH WITT AND CHRISTIAN ZELLNER 352

Comments to Chapters 11 and 12
MAUREEN MCKELVEY 372

Part 7: Innovation and evolution of the university system 379

13 Academic entrepreneurs and technology transfer: who participates and why?
JANET BERCOVITZ AND MARYANN FELDMAN 381

14 Modelling and measuring scientific production: a first estimation for a panel of OECD countries
GUSTAVO CRESPI AND ALDO GEUNA 399

Comments to Chapters 13 and 14
W. EDWARD STEINMUELLER 430

Part 8: Innovations and public policy 439

15 Innovation systems, innovation policy and restless capitalism
STAN METCALFE 441

16 Intellectual property rights and competition policy
PAUL A. GEROSKI 455

17 The policy-shaper's anxiety at the innovation kick: how far do innovation theories really help in the world of policy?
PARASKEVAS CARACOSTAS 464

Index 490