Contents

List of figures ........................................ page viii
List of tables ........................................... x
List of contributors ................................ xii
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 ORSENIGO  

### 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-ÅKE 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

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