

CONTENTS OF THE HANDBOOK

VOLUME 2

PART IV: DIFFUSION

Chapter 17

The Diffusion of New Technology

PAUL STONEMAN and GIULIANA BATTISTI

Chapter 18

General Purpose Technologies

TIMOTHY BRESNAHAN

Chapter 19

International Trade, Foreign Direct Investment, and Technology Spillovers

WOLFGANG KELLER

PART V: INNOVATION OUTCOMES

Chapter 20

Innovation and Economic Development

JAN FAGERBERG, MARTIN SRHOLEC, and BART VERSPAGEN

Chapter 21

Energy, The Environment, and Technological Change

DAVID POPP, RICHARD G. NEWELL, and ADAM B. JAFFE

Chapter 22

The Economics of Innovation and Technical Change in Agriculture

PHILIP G. PARDEY, JULIAN M. ALSTON, and VERNON W. RUTTAN

PART VI: MEASUREMENT OF INNOVATION

Chapter 23

Growth Accounting

CHARLES R. HULTEN

Chapter 24

Measuring the Returns to R&D

BRONWYN H. HALL, JACQUES MAIRESSE, and PIERRE MOHNEN

Chapter 25

Patent Statistics as an Innovation Indicator

SADAO NAGAOKA, KAZUYUKI MOTOHASHI, and AKIRA GOTO

Chapter 26

Using Innovation Surveys for Econometric Analysis

JACQUES MAIRESSE and PIERRE MOHNEN

PART VII: POLICY TOWARDS INNOVATION

Chapter 27

Systems of Innovation

LUC SOETE, BART VERSPAGEN, and BAS TER WEEL

Chapter 28

Economics of Technology Policy

W. EDWARD STEINMUELLER

Chapter 29

Military R&D and Innovation

DAVID C. MOWERY

Author Index

Subject Index

VOLUME 1

PART I: INTRODUCTION AND OVERVIEW

Chapter 1

Introduction to the Handbook

BRONWYN H. HALL and NATHAN ROSENBERG

*Chapter 2*The Contribution of Economic History to the Study of Innovation and
Technical Change: 1750–1914

JOEL MOKYR

Chapter 3

Technical Change and Industrial Dynamics as Evolutionary Processes
GIOVANNI DOSI and RICHARD R. NELSON

Chapter 4

Fifty Years of Empirical Studies of Innovative Activity and Performance
WESLEY M. COHEN

PART II: INVENTION AND INNOVATION

Chapter 5

The Economics of Science
PAULA E. STEPHAN

Chapter 6

University Research and Public-Private Interaction
DOMINIQUE FORAY and FRANCESCO LISSONI

Chapter 7

Property Rights and Invention
KATHARINE ROCKETT

Chapter 8

Stylized Facts in the Geography of Innovation
MARYANN P. FELDMAN and DIETER F. KOGLER

Chapter 9

Open User Innovation
ERIC VON HIPPEL

Chapter 10

Learning by Doing
PETER THOMPSON

Chapter 11

Innovative Conduct in Computing and Internet Markets
SHANE GREENSTEIN

Chapter 12

Pharmaceutical Innovation
F.M. SCHERER

Chapter 13

Collective Invention and Inventor Networks

WALTER W. POWELL and ERIC GIANNELLA

PART III: COMMERCIALIZATION OF INNOVATION

Chapter 14

The Financing of R&D and Innovation

BRONWYN H. HALL and JOSH LERNER

Chapter 15

The Market for Technology

ASHISH ARORA and ALFONSO GAMBARDELLA

*Chapter 16*Technological Innovation and the Theory of the Firm: The Role of
Enterprise-Level Knowledge, Complementarities, and (Dynamic) Capabilities

DAVID J. TEECE

Author Index

Subject Index