

# **Economic Models of Technological Change**

*Theory and Application*

**RAJEEV K. GOEL**

# Economic Models Of Technological Change Economic Models Of Technological Change

**Jorge M. Katz, United Nations.  
Economic Commission for Latin  
America and the Caribbean**

## **Economic Models Of Technological Change Economic Models Of Technological Change:**

**Economic Models of Technological Change** Rajeev K. Goel, *Technological Change in Economic Models of Environmental Policy* Andreas Löschel, 2004 This paper provides an overview of the treatment of technological change in economic models of environmental policy Numerous economic modeling studies have confirmed the sensitivity of mid and long run climate change mitigation cost and benefit projections to assumptions about technology costs In general technical progress is considered to be a non economic exogenous variable in global climate change modeling However there is overwhelming evidence that technological change is not an exogenous variable but to an important degree endogenous induced by needs and pressures Hence some environment economy models treat technological change as endogenous responding to socio economic variables Three main elements in models of technological innovation are i corporate investment in research and development ii spillovers from R D and iii technology learning especially learning by doing The incorporation of induced technological change in different types of environmental economic models tends to reduce the costs of environmental policy accelerates abatement and may lead to positive spillover and negative leakage *Economics of Structural and Technological Change* Cristiano Antonelli, Nicola De Liso, 2002-09-11 Technology has long been seen as a path to economic growth However there is considerable debate about the exact nature of this relationship *Economics of Structural and Technological Change* employs a wide range of theoretical and applied approaches to explore the concept of technological change The book begins with a series of in depth discussions of the economic analysis of technological change The second section contains a discussion of theoretical models of technological change focusing on issues such as time and innovation The third section brings together a number of applied analyses of technological change and examines the effect of factors such as human resource constraints patenting and science and technology indicators Technological Change and the Environment Arnulf Grübler, 2010-09-30 Much is written in the popular literature about the current pace of technological change But do we have enough scientific knowledge about the sources and management of innovation to properly inform policymaking in technology dependent domains such as energy and the environment While it is agreed that technological change does not fall from heaven like autumn leaves the theory data and models are deficient The specific mechanisms that govern the rate and direction of inventive activity the drivers and scope for incremental improvements that occur during technology diffusion and the spillover effects that cross fertilize technological innovations remain poorly understood In a work that will interest serious readers of history policy and economics the editors and their distinguished contributors offer a unique single volume overview of the theoretical and empirical work on technological change Beginning with a survey of existing research they provide analysis and case studies in contexts such as medicine agriculture and power generation paying particular attention to what technological change means for efficiency productivity and reduced environmental impacts The book includes a historical analysis of technological change an examination of the overall direction of

technological change and general theories about the sources of change The contributors empirically test hypotheses of induced innovation and theories of institutional innovation They propose ways to model induced technological change and evaluate its impact and they consider issues such as uncertainty in technology returns technology crossover effects and clustering A copublication of Resources for the Future RFF and the International Institute for Applied Systems Analysis IIASA

Development Economics Alain de Janvry, Elisabeth Sadoulet, 2021-05-30 This second edition of *Development Economics Theory and Practice* continues to provide students and practitioners with the perspectives and tools they need to think analytically and critically about the current major economic development issues in the world Alain de Janvry and Elisabeth Sadoulet identify seven key dimensions of development growth poverty vulnerability inequality basic needs sustainability and quality of life and use them to structure the contents of the text The book gives a historical perspective on the evolution of thought in development It uses theory and empirical analysis to present readers with a full picture of how development works how its successes and failures can be assessed and how alternatives can be introduced The authors demonstrate how diagnostics design of programs and policies and impact evaluation can be used to seek new solutions to the suffering and violence caused by development failures In the second edition more attention has been given to ongoing developments such as pursuit of the Sustainable Development Goals continuously rising global and national inequality health as a domestic and international public good cash transfers for social protection carbon trading for sustainability This text is fully engaged with the most cutting edge research in the field and equips readers with analytical tools for impact evaluation of development programs and policies illustrated with numerous examples It is underpinned throughout by a wealth of student friendly features including case studies quantitative problem sets end of chapter questions and extensive references Excel and Stata exercises are available as digital supplements for students and instructors This unique text is ideal for those taking courses in development economics economic growth and development policy and will provide an excellent foundation for those wishing to pursue careers in development

Handbook of the Economics of Innovation Bronwyn H. Hall, Nathan Rosenberg, 2010-03-06 How does technology advance How can we best assimilate innovation These questions and others are considered by experts on the theories and applications of technological innovations Considering subjects as diverse as the diffusion of new technologies and their industrial applications governmental policies and manifestations of innovation in our institutions history and environment our contributors map milestones in research and speculate about the roads ahead Wasteful inefficient and frequently wrongheaded the process of technological changes is here revealed as a describable scientific force Two volumes available separately and as a set Expert articles consider the best ways to establish optimal incentives in technological progress Science and innovation both their theories and applications are examined at the intersections of the marketplace policy and social welfare Economists are only part of an audience that includes attorneys educators and anyone involved in new technologies

*Localised Technological Change* Cristiano Antonelli, 2008-01-31 Pt 1

The ingredients pt 2 The governance of localised technological knowledge pt 3 The introduction of localised technological change

**Modeling Technological Change in Economic Models of Climate Change** Andreas Löschel, Michael Schymura, 2013

**Encyclopedia of Energy, Natural Resource, and Environmental Economics**, 2013-03-29 Every decision about energy involves its price and cost The price of gasoline and the cost of buying from foreign producers the price of nuclear and hydroelectricity and the costs to our ecosystems the price of electricity from coal fired plants and the cost to the atmosphere Giving life to inventions lifestyle changes geopolitical shifts and things in between energy economics is of high interest to Academia Corporations and Governments For economists energy economics is one of three subdisciplines which taken together compose an economic approach to the exploitation and preservation of natural resources energy economics which focuses on energy related subjects such as renewable energy hydropower nuclear power and the political economy of energy resource economics which covers subjects in land and water use such as mining fisheries agriculture and forests environmental economics which takes a broader view of natural resources through economic concepts such as risk valuation regulation and distribution Although the three are closely related they are not often presented as an integrated whole This Encyclopedia has done just that by unifying these fields into a high quality and unique overview The only reference work that codifies the relationships among the three subdisciplines energy economics resource economics and environmental economics Understanding these relationships just became simpler Nobel Prize Winning Editor in Chief joint recipient 2007 Peace Prize Jason Shogren has demonstrated excellent team work again by coordinating and steering his Editorial Board to produce a cohesive work that guides the user seamlessly through the diverse topics This work contains in equal parts information from and about business academic and government perspectives and is intended to serve as a tool for unifying and systematizing research and analysis in business universities and government

**International Handbook on the Economics of Energy** Lester C. Hunt, Joanne Evans, 2011-01-01 As an essential component for economic growth energy has a significant impact on the global economy The need to meet growing energy demand has prompted cutting edge innovation in clean technology in an attempt to realise environmental and cost objectives whilst ensuring the security of energy supply This Handbook offers a comprehensive review of the economics of energy including contributions from a distinguished array of international specialists It provides a thorough discussion of the major research issues in this topical field of economics Themes addressed include the theory of energy supply demand and policy empirical modelling of energy demand holistic energy models an analysis of coal gas electricity oil and the markets within which they operate and a discussion of the current key energy policy issues The topics of pricing transmission regulation security energy efficiency new technologies and climate change are also discussed The International Handbook on the Economics of Energy presents a comprehensive overview of the state of the art research making it an indispensable reference for researchers advanced students practitioners and policy makers alike

**PELPS III, a Microcomputer Price Endogenous Linear**

**Programming System for Economic Modeling** Dali Zhang,1993      The Theory of Technological Change and Economic Growth Dr Stanislaw Gomulka,2006-12-05 In this wide ranging exposition of the various economic theories of technological change Stanislaw Gomulka relates them to rates of growth experienced by different economies in both the short and the long term Analysis of countries as diverse as Japan the Soviet Union and the United Kingdom demonstrates that there is an interdependence between technological change and the institutional and cultural characteristics of different countries which can have a profound effect on their rates of growth All of the major relevant models are discussed including those of Kuznets and Phelps but throughout the emphasis is on the creation of a unified theoretical framework to help explain the impact of technological progress on both a micro and a macro scale      Unesco List of Documents and Publications Unesco,1987

**Technological Change and Network Effects in Growth Regimes** Torsten Heinrich,2014-06-03 In this new volume it is argued that network effects are much more common than usually assumed and that they have a profound impact on many aspects of economic systems especially technological change and economic growth The analysis and modelling of this interrelationship is the central focus of this book While there exists a vast body of literature on economic growth the theories put forward so far have had limited success in explaining observed patterns of economic growth Growth cycles in particular continue to elude standard economic models though evolutionary economics has made some progress Seeking to fill the gap Torsten Heinrich s innovative approach uses microeconomics to explain heterogeneous sectoral dynamics on the meso level and then aggregating these to observed macroeconomic growth rates In this way it is shown that an evolutionary model of technological change with network effects can explain not only commonly observed asymmetric industry structures monopolies and oligopolies but also growth cycles The book includes a comprehensive account of the most influential economic growth theories a discussion of the research on network effects as well as an introduction to the methodology the model and a case study on the recent emergence of information and communication technology This important new volume will be relevant to all those interested in theoretical economics growth theory innovation economics agent based modelling and industry dynamics      **Structural Reforms, Productivity and Technological Change in Latin America** Jorge M. Katz,United Nations. Economic Commission for Latin America and the Caribbean,2001 In the last ten to fifteen years profound structural reforms have moved Latin America and the Caribbean from closed state dominated economies to ones that are more market oriented and open Policymakers expected that these changes would speed up growth This book is part of a multi year project to determine whether these expectation have been fulfilled Focusing on technological change the impact of the reforms on the process of innovation is examined It notes that the development process is proving to be highly heterogenous across industries regions and firms and can be described as strongly inequitable This differentiation that has emerged has implications for job creation trade balance and the role of small and medium sized firms This ultimately suggests amongst other things the need for policies to better spread the use of new technologies      **Technological Change**

**in Economic Models of Environment Policy** ,2002      **Technological Change and the Environment** Arnulf

Grübler,2010-09-30 Much is written in the popular literature about the current pace of technological change But do we have enough scientific knowledge about the sources and management of innovation to properly inform policymaking in technology dependent domains such as energy and the environment While it is agreed that technological change does not fall from heaven like autumn leaves the theory data and models are deficient The specific mechanisms that govern the rate and direction of inventive activity the drivers and scope for incremental improvements that occur during technology diffusion and the spillover effects that cross fertilize technological innovations remain poorly understood In a work that will interest serious readers of history policy and economics the editors and their distinguished contributors offer a unique single volume overview of the theoretical and empirical work on technological change Beginning with a survey of existing research they provide analysis and case studies in contexts such as medicine agriculture and power generation paying particular attention to what technological change means for efficiency productivity and reduced environmental impacts The book includes a historical analysis of technological change an examination of the overall direction of technological change and general theories about the sources of change The contributors empirically test hypotheses of induced innovation and theories of institutional innovation They propose ways to model induced technological change and evaluate its impact and they consider issues such as uncertainty in technology returns technology crossover effects and clustering A copublication o Resources for the Future RFF and the International Institute for Applied Systems Analysis IIASA      **Technological Change, Its**

**Conception and Measurement** Lester B. Lave,1966 This is another short work in the popular research area of technological change It will be of interest to agricultural economists because three of the chapters deal explicitly with agriculture and much of the detailed concern with measurement problems utilizes agricultural data      **U.S. Government**

**Research & Development Reports** ,1965      *Modelling Sustainable Development* Valentina Bosetti,Reyer Gerlagh,Stefan Schleicher,2009 This insightful book explores the issue of sustainable development in its more operative and applied sense Although a great deal of research has addressed potential interpretations and definitions of sustainable development much of this work is too abstract to offer policy makers and researchers the feasible and effective guidelines they require This book redresses the balance The authors highlight how various indicators and aggregate measures can be included in models that are used for decision making support and sustainability assessment They also demonstrate the importance of identifying practical means to assess whether policy proposals specific decisions or targeted scenarios are sustainable With discussions of basic concepts relevant to understanding applied sustainability analysis such as definitions of costs and revenue recycling this book provides policy makers researchers and graduate students with feasible and effective principles for measuring sustainable development

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