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# Economic Transformations

*General Purpose Technologies and Long Term Economic Growth*



$$GPT_t^A = \left( \frac{e^{\tau + y(t-t_0)}}{1 + e^{\tau + y(t-t_0)}} \right) * (GPT_t^P)$$

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# Economic Transformations General Purpose Technologies And Long Term Economic Growth

**Camilla Rothe**



## **Economic Transformations General Purpose Technologies And Long Term Economic Growth:**

**Economic Transformations** Richard G. Lipsey, Kenneth I. Carlaw, Clifford T. Bekar, 2005-11-03 This book examines the long term economic growth that has raised the West's material living standards to levels undreamed of by counterparts in any previous time or place. The authors argue that this growth has been driven by technological revolutions that have periodically transformed the West's economic, social and political landscape over the last 10 000 years and allowed the West to become until recently the world's only dominant technological force. Unique in the diversity of the analytical techniques used, the book begins with a discussion of the causes and consequences of economic growth and technological change. The authors argue that long term economic growth is largely driven by pervasive technologies now known as General Purpose GPTs. They establish an alternative to the standard growth models that use an aggregate production function and then introduce the concept of GPTs complete with a study of how these technologies have transformed the West since the Neolithic Agricultural Revolution. Early modern science is given more importance than in most other treatments and the 19th century demographic revolution is studied with a combination of formal models of population dynamics and historical analysis. The authors argue that once sustained growth was established in the West, formal models can shed much light on its subsequent behaviour. They build non conventional dynamic non stationary equilibrium models of GPT driven growth that incorporate a range of phenomena that their historical studies show to be important but which are excluded from other GPT models in the interests of analytical tractability. The book concludes with a study of the policy implications that follow from their unique approach.

*Economic Transformations* Richard George Lipsey, Richard G. Lipsey, Senior Lecturer in Economics, Kenneth I. Carlaw, Kenneth Carlaw, Clifford T. Bekar, Clifford Bekar, 2005 This book examines the long term economic growth that has raised the West's material living standards to levels undreamed of by counterparts in any previous time or place. The authors argue that this growth has been driven by technological revolutions that have periodically transformed the West's economic, social and political landscape over the last 10 000 years and allowed the West to become until recently the world's only dominant technological force. Unique in the diversity of the analytical techniques used, the book begins with a discussion of the causes and consequences of economic growth and technological change. The authors argue that long term economic growth is largely driven by pervasive technologies now known as General Purpose GPTs. They establish an alternative to the standard growth models that use an aggregate production function and then introduce the concept of GPTs complete with a study of how these technologies have transformed the West since the Neolithic Agricultural Revolution. Early modern science is given more importance than in most other treatments and the 19th century demographic revolution is studied with a combination of formal models of population dynamics and historical analysis. The authors argue that once sustained growth was established in the West, formal models can shed much light on its subsequent behaviour. They build non conventional dynamic non stationary equilibrium models of GPT driven growth that incorporate a range of phenomena that their historical

studies show to be important but which are excluded from other GPT models in the interests of analytical tractability The book concludes with a study of the policy implications that follow from their unique approach Economic Interpretations of England's State Formation and Its Management to 1850 Gordon Holmes,2024-10-24 The book is divided into two sections The first half provides a historiography of the literature on state formation from antiquity to the present day In the second Gordon identifies a new theme using the methodologies of economic history the history of economic thought and the history of ideas His interdisciplinary approach demonstrates that the process of state formation is best understood through the prism of science economy and culture The narrative highlights significant events and institutions as markers of change in the Middle Ages and the Early Modern era The core of the book focuses on England s economic culture and its impact on state management University elites in science and Aristotle s philosophy educated literate and numerate professionals for the Royal court They became indispensable for the ever growing complexity of governing England was unique because it embraced statistical thinking and quantitative reasoning at the heart of the English State Innovation in General Purpose Technologies : How Knowledge Gains when It Is Shared Nina Teichert,2013 This book tackles the different aspects of the creation and transmission of knowledge in the context of the characteristics of a general purpose technology Nanotechnology is investigated as showcase example Particular emphasis is put on the role of the composition of knowledge as well as the corresponding knowledge spillovers on the one hand and on the concrete impact of collaboration and knowledge sharing in innovator networks on the other hand **General Purpose Technology, Spin-Out, and Innovation** Hiroshi Shimizu,2019-05-17 This book focuses on exploring the relationship between spin outs from incumbents and the patterns of innovation in general purpose technology Do spin outs really promote innovation What happens if star scientists leave the incumbents and establish a startup to target untapped markets Entrepreneurial spin outs have been recognized as an engine of innovation General purpose technology such as the steam engine in the Industrial Revolution has been considered an engine of growth This book provides new perspectives on how entrepreneurial spin outs shape the patterns of innovation in general purpose technology by integrating theoretical findings in industrial organizations and includes innovation studies and detailed evidence from a longitudinal case study Concretely by longitudinally exploring the technological development of laser diodes in the USA and Japan this study examines how the existence or absence of an entrepreneurial strategic choice for spin outs influences the patterns of subsequent technological development The longitudinal analysis in this book shows that spin outs could hinder the subsequent development of existing technology when that technology is still at a nascent level because the cumulative effects of technological development could disappear if research and development personnel leave their parent firms in order to target different sub markets The findings of this book show that institutional settings designed to promote spin outs do not necessarily promote innovation The book offers novel theoretical insights into the relationship between institutions promoting spin outs and the developments of general purpose technology Climate Change and the

Course of Global History John L. Brooke, 2014-03-17 The first global study by a historian to fully integrate the earth system approach of the new climate science with the material history of humanity

Long Term Economic Development Andreas Pyka, Esben Sloth Andersen, 2013-06-22 The book gives an overview of important research topics recently addressed in evolutionary Neo Schumpeterian Economics The list of research questions and applications of Neo Schumpeterian reasoning impressively demonstrates the rich possibilities ranging from theoretical issues addressing human behaviour to applied areas like the emergence of biotechnology in developing countries the role of innovation on financial markets and the R D strategies of multinational enterprises The chapters in this book bring together a rich set of new analytical and empirical methodologies which allow for new relevant and rigorous insights in innovation processes which are responsible for economic development and structural change

**Structures of Change in the Mechanical Age** Ross Thomson, 2009-05-08 The United States registered phenomenal economic growth between the establishment of the new republic and the end of the Civil War Ross Thomson's fresh study accounts for the unprecedented technological innovations that helped propel antebellum growth Thomson argues that the transition of the United States from an agrarian economy in 1790 to an industrial leader in 1865 relied fundamentally on the spread of technological knowledge within and across industries Essential to this spread was a dense web of knowledge diffusing institutions new occupations and industries the patent office machine shops mechanics associations scientific societies public colleges and the civil engineering profession Together they composed an integrated innovation system that generated disseminated and employed new technical knowledge across ever widening ranges of the economy To trace technological change in fourteen major industries and the economy as a whole Thomson analyzes 14 000 patents the records of two dozen machinery firms census data for 1 800 companies and hundreds of business directories This exhaustive research leads to his interesting interpretation of technological diffusion and development Thomson's impressive study of the infrastructure that fueled and supported the young country's economic and industrial successes will interest students of economic technological and business history

*The Business of Innovation* Jay Mitra, 2017-04-17 Moving beyond the narrow confines of a how to of Innovation management The Business of Innovation sets out to track trace and provide testimonies of innovation practice in small to large scale organisations from countries around world Through a combination of contemporary economic and social theory and an array of practical examples from a wide range of sectors and industries Jay Mitra offers critical insight into how global innovation works where it works and most importantly who makes it work with an emphasis on innovative women Suitable for postgraduate doctoral and MBA students on business management and innovation courses and practitioners looking for a critical insight into the business of innovation

**The Diffusion of Information and Communication Technologies** Ewa Lechman, 2017-09-27 In recent decades the world has witnessed unprecedented in terms of speed and geographic coverage diffusion of new information and communication technologies ICT The on going digital revolution pervasively impacts and reshapes societies and economies

and therefore deserves special attention and interest This book provides extensive evidence on information and communication technologies development patterns and dynamics of this process across developed economies over the period 1980 to the present day It adopts newly developed methodology to identification of the critical mass and isolation of technological takeoff intervals which are intimately related to the process of technology diffusion The statistically robust analysis of country specific data demonstrates the key economic social and institutional prerequisites of ICT diffusion across examined countries indicating what factors significantly foster or reversely hinder the process

*Structural Analysis and the Process of Economic Development* Jonas Ljungberg, 2016-05-05 Economic development is full of discontinuities Mainstream economists perceive these as external disturbances to a natural state of equilibrium but this book argues that much of the discontinuities are part of economic development suggesting that patterns can be understood with structural analysis Structural Analysis and the Process of Economic Development presents a detailed analysis of the trajectory of Swedish economic change since the nineteenth century The emergence of structural analysis in economic research is reviewed as well as a chapter devoted to development blocks a key concept that was outlined in the 1940s and that has much in common with the more recent notions techno economic paradigms and general purpose technologies Structural analysis and the major contributions by Sch n are introduced in this book Also highlighted is Sweden s integration into the international economy via the nineteenth century capital markets along with structural analysis as a tool for understanding climate change The recent technique of wavelet analysis and its potential for structural analysis is demonstrated in a non technical chapter This book is suitable for those who are interested in and study political economy economic history and European history

**The Handbook of Evolutionary Economic Geography** Ron A. Boschma, Ron L. Martin, 2010 This wide ranging handbook studies and defines the paradigm of evolutionary economic geography The distinguished contributors highlight the key conceptual theoretical and empirical advances and present a clear statement of their aims objectives and methods

Rethinking Climate and Energy Policies Tilman Santarius, Hans Jakob Walnum, Carlo Aall, 2016-08-18 This book calls for rethinking current climate energy and sustainability policy making by presenting new insights into the rebound phenomenon i e the driving forces mechanisms and extent of rebound effects and potential means of mitigating them It pursues an innovative and novel approach to the political and scientific rebound discourse and hence supplements the current state of knowledge discussed in the field of energy economics and recent reports by the Intergovernmental Panel on Climate Change Building on central rebound publications from the past four decades this book is divided into three main sections Part I highlights new aspects of rebound economics by presenting insights into issues that have so far not been satisfactorily researched such as rebounds in countries of the Global South rebounds on the producer side and rebounds from sufficiency behaviour as opposed to rebounds from technical efficiency improvements In turn Part II goes beyond conventional economic rebound research exploring multidisciplinary perspectives on the phenomenon in particular from the

fields of psychology and sociology Advancing such multidisciplinary perspectives delivers a more comprehensive understanding of rebound s driving forces mechanisms and policy options Part III puts rebounds into practice and presents several policy cases and sector specific approaches including the contexts of labour markets urban planning tourism information and communication technologies and transport Lastly the book embeds the issue into the larger debate on decoupling green growth and degrowth and identifies key lessons learned for sustainable development strategies and policies at large By employing such varied and in depth analyses the book makes an essential contribution to the discussion of the overall question Can resource energy use and greenhouse gas emissions be substantially reduced without hindering economic growth

Evolutionary Economic Geography Miroslav Jovanovic,2008-10-07 The purpose of this book is to provide a guided tour through the theoretical foundations of spatial locations of firms and industries in an evolutionary economic framework It addresses the issues of how a location of business in geographical space is selected and where economic activity may re locate in the future The analysis is in the context

**Taxation in the Digital Era** Åsa Hansson,Joakim Wernberg,2025-09-30 This open access edited volume discusses the impact of digitalization on taxation using the Swedish welfare state model as a lens through which to examine the disruptive effect of new technologies on traditional tax models Taking a multidisciplinary approach it integrates perspectives from economics law audit and public policy to shed light on contemporary challenges in taxation With Sweden as a central case study the chapters in this book address broader concerns surrounding the impact of digital transformation on how states calculate and enforce tax as well as the role of international coordination in reforming tax policy The book covers many important topics such as financing public welfare international attempts to combat issues concerning multinationals and consumption taxation legitimacy and democratic implications as well as how digitalization impacts firms and tax authorities tax administration The effects of AI automation and remote work are all considered as well as how greater labor mobility is decreasing the emphasis on a geographical nexus for taxability and creating a need for urgent tax reform Providing a diverse set of theoretical and policy considerations this book will be essential reading for scholars students and policymakers working in the spheres of tax law the welfare state and public economics

**The Economics and Politics of Climate Change** Dieter Helm,Cameron Hepburn,2009-10-29 The international framework for a climate change agreement is up for review as the initial Kyoto period to 2012 comes to an end Though there has been much enthusiasm from political and environmental groups the underlying economics and politics remain highly controversial This book takes a cool headed look at the critical roadblocks to agreement examining the economics of climate change the incentives of the main players the US EU China and examines the policies governments can put in place to reduce greenhouse gas emissions and ultimately shift our economies onto a low carbon path The volume brings together leading climate change policy experts to set out the economic analysis and the nature of the negotiations at Copenhagen and beyond In addition to reviewing the main issues discussed above a number of the articles

question the basis of much of the climate change consensus and debate the Stern Report's main findings The book is in four parts Following an overview of the main issues the first part is a reassessment of the economics of climate change This is fundamental to the rest of the volume and it contains new material which goes well beyond what might be called the new conventional wisdom The second part looks at the geography of the costs and benefits of climate change the very different perspectives of Africa China the US and Europe These chapters provide a building block to considering the prospects for a new global agreement the very different interests that will have to be reconciled at Copenhagen and beyond The third part looks at policy instruments at the global level whereas much of the literature to date is nationally and regionally based Trading and R D feature in the chapters but so too do more radical unilateral options including geo engineering Part four turns to the institutional architecture drawing on evidence from previous attempts in other areas as well as proposals for new bodies

**Paradigm Shift in Technologies and Innovation Systems** John Cantwell, Takabumi Hayashi, 2019-11-02 This book provides some new ideas on the conceptualization of a shift in technological paradigm and it explores in depth the relevance of this concept for research on innovation systems It examines text mining software and analyzes patent data as well as academic and business journals to illustrate the paradigm shift of newly emerging technologies such as the all solid state battery and automatic driving for electric vehicles and surgical robots It also explores the critical role of emerging software technologies by examining US EU and Japanese patent statistics Highlighting the paradigm shift of technologies since the 1990s and the geographical dispersion of innovative capabilities it identifies essential trends toward new innovation systems as well as the concentration and dispersion of national and corporate R D capabilities that have taken place as a result In this new paradigm the competitiveness of a company is decisively determined by other innovations in systems and management Since the 1990s when a network economy began to be established and technological know how came to be easily transferred across borders the changing structure of technological activities has required organizations with traditional integral and closed architecture models to move toward open innovation or modular architectures These changes involve wider technological areas and cognitive diversity among international inter firm and intra firm R D networks This book is highly recommended not only to academicians but also to business people seeking an in depth and up to date overview of the paradigm shift of technologies and new innovation systems

**Innovation, Complexity and Economic Evolution** Pier Paolo Saviotti, 2023-03-23 If evolutionary economics is to compete with neoclassical economics as a general purpose economic theory it needs to incorporate new aspects of socioeconomic reality such as institutions of all types including technical scientific and political Furthermore evolutionary economics needs to be able to provide policy implications at least as interesting as those of neoclassical economics Thus as this book argues evolutionary economics must become evolutionary political economy Innovation plays a central role in the book but not in the sense of providing a technologically determinist interpretation Rather the book argues that innovations do not emerge in isolation from other



components of socioeconomic systems but coevolve with institutions infrastructures and organizational forms This concept of coevolution is absolutely central in the book and provides a link with theories of complexity In addition to providing an epistemological basis for evolutionary economics the link with complexity and coevolution offers the connection with evolutionary political economy Innovations and technologies do not emerge and develop in an institutional vacuum but interact with existing institutions and reshape them in addition to inducing the formation of new institutions In this process technologies and institutions reinforce each other providing a potential mechanism to transform socioeconomic systems The book also explores the policy implications of these innovative societies where wealth is created but unequally distributed The book is addressed to open minded economists social scientists who are dissatisfied with the approach of neoclassical economics technologists and policy makers      **The Economics of Structural Change in Knowledge** Francesco

Quatraro,2012-03-29 This book provides an elaboration upon the concept of knowledge from an economic viewpoint However this is not a book on economics of knowledge at least not in the conventional sense Most of the existing books on the matter have focused on the treatment of knowledge in terms of properties of knowledge as an economic good incentive schemes for the creation of knowledge issues about the codified tacit nature of knowledge and the like      Demand, Complexity, and Long-Run Economic Evolution Andreas Chai,Chad M. Baum,2019-05-11 The purpose of this contributed volume is to consider how global consumption patterns will develop in the next few decades and what the consequences of that development will be for the economy policymakers and society at large In the long run the extent to which economic growth translates into better living conditions strongly depends on how rising affluence and new technologies shape consumer preferences The ongoing rise in household income in developing countries raises some important questions Will consumption patterns always continue to expand in the same manner as we have witnessed in the previous two centuries If not how might things evolve differently And what implications would such changes hold for not only our understanding of consumption behavior but also our pursuit of more sustainable societies

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