

Technological Change and Economic Performance

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Donald S. Stengel



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George M. Korres

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The book compares and explains differences in levels of incomes among industrialised countries

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Cristoforo S. Bertuglia, Manfred M. Fischer, Giorgio Preto, 2012-12-06 The pressures of global competition are affecting regions throughout the world and making it increasingly necessary to understand the complex underlying mechanisms and the potential for innovation offered by new technology Success in economic restructuring depends not only on the technology itself but the professional and entrepreneurial skills available and the support of provided by institutions and information networks The very local nature these phenomena which are critical to the innovative propensity of firms operating within the region introduces an inevitable spatial dimension The time therefore seems ripe to bring together contributions from scholars working in different but related disciplines with the aim of investigating the triangular relationship between technological change economic development and space The present volume offers a compact review of current theoretical developments and valuable insights deriving from recent empirical studies

carried out both within Europe and elsewhere All those contributing to this volume are actively involved in research in the field Without their intellectual contribution and willingness to participate in this joint project the book would not have been possible We should like in addition to thank Angela Spence for her capable assistance in coordinating the various stages of preparation of the book as well as her translation work and careful linguistic editing Thanks also go to Paola Stasi for her meticulous copy editing and help in preparing the indices Their work has been invaluable in moulding together in a single volume contributions from so many different sources

Global Economic and Technological Change United States.

Congress. Joint Economic Committee. Subcommittee on Technology and National Security,United States. Congress. Joint Economic Committee. Subcommittee on Economic Goals and Intergovernmental Policy,United States. Congress. Joint Economic Committee,1993

Technical Change and Economic Growth Mr George M Korres,2012-11-28

Technological change is not only a determinant of growth but is also a pivotal factor in international competition and the modernization of an economy In one of the most in depth and detailed studies of its kind George Korres analyzes the macroeconomic and the microeconomic factors influencing the economics of innovation and the economic relations between technology innovation knowledge and productivity In particular this book examines both the theoretical framework and the applications for empirical results This second edition contributes updated figures and estimations for technical change from EU member states and features new subjects including growth models productivity models production function models and non parametric models In one of the most in depth and detailed studies of its kind this book captures all the existing contemporary techniques in the theoretical fields as well as the empirical applications of the models

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Technological Change and Economic Performance Ibrahim F. Akoum,1990

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biotechnology pharmaceutical biotechnology and automobiles Commissioned and brought together for the research project by the world renowned Council on Foreign Relations the authors have produced one of the most important compendia in applied economics to be published in recent times The contributors are Charles Calomiris Ian Domowitz Robert Evenson Charles Fine Robert Gordon Richard Langlois Josh Lerner Markku Malkam ki Patrick Messerlin Joel Mokyr David Mowery Richard R Nelson Stephen Nickell Gary Pisano Adam Posen Daniel Raff Horst Siebert Timothy Simcoe Benn Steil Michael Stolpe John Van Reenen David Victor and Matti Virn **Technology and Economic Development** Edward J. Malecki, 2009 This study examines the effects of technological change on economic growth and development synthesizing extensive research from multiple disciplines including geography and planning regional science entrepreneurship technology policy and economics It uses the framework of regional development to encompass economic dynamics at all spatial scales national regional and local The concept of regional development is introduced as the qualitative or structural features of a region's economy as opposed to its sheer size or growth rate The analysis also examines the core periphery dichotomy where the core is defined as a set of regions in which complexity technology and control are the norm and where linkages to other nodes and the global system are common The discussion also draws a distinction between economic growth and economic development the former designates increases in population within a specific area or increases in the quantity or the value of the goods and services and does not necessarily lead to qualitative improvements in life the way development does Technological capability is closely related to capability in R conventional strategies are changing to encompass people their contacts and skills as another vital basis for success of firms in new technologies and in alliances and other cooperations The location of economic activities is explored There are two major sets of influences on the innovativeness and competitiveness of places 1 technical skills and information are key in the process of technological change and competition and 2 urban areas contain a complex synergy of factors that smaller more remote places cannot attain Producer services which are strongly based on knowledge and symbolic analysis are therefore typically clustered in cities Small firms and entrepreneurship are examined as a crucial part of a well functioning regional economy Research has demonstrated the close relationship between entrepreneurship and regional and local development Innovativeness developed within local inter firm networks both supports existing firms and presents opportunities for starting new businesses in order to serve newly identified markets Networks of firms complement and sometimes substitute for a firm's own technological capability Networks of large firms and the globalization of economic activity are then considered Policy attempts at national regional and local scales to influence the location of economic activity are analyzed The economic progress and prospects of developing countries are assessed Policies for innovation entrepreneurship and the functioning of the economy are essential and require flexibility in order to respond to changing conditions in the world economy in specific product markets and in technology Concludes with a discussion of some of the central themes that were facing society at the end of the 1990s including basic needs for human development environmental

issues employment and human capital and infrastructures for future technologies AT **The Economic Analysis of Technology Policy** Paul Stoneman,1987 This study examines governmental intervention in the technical process and its effect on economic performance Stoneman discusses the welfare framework and the relationship between technological change and economic performance and investigates the effects of technology policies in a theoretical construct that unifies invention innovation and diffusion **Technical Change and Economic Growth** George M. Korres,2016-12-05

Technological change is not only a determinant of growth but is also a pivotal factor in international competition and the modernization of an economy In one of the most in depth and detailed studies of its kind George Korres analyzes the macroeconomic and the microeconomic factors influencing the economics of innovation and the economic relations between technology innovation knowledge and productivity In particular this book examines both the theoretical framework and the applications for empirical results This second edition contributes updated figures and estimations for technical change from EU member states and features new subjects including growth models productivity models production function models and non parametric models In one of the most in depth and detailed studies of its kind this book captures all the existing contemporary techniques in the theoretical fields as well as the empirical applications of the models Innovations

Technological Specialisation and Economic Growth in the EU Andre Jungmittag,2004 This paper analyses the effects of innovations technological specialisation and technology diffusion on economic growth and convergence of the EU countries from 1969 to 1998 *Economic Policy and Technological Performance* Partha Dasgupta,Paul Stoneman,2005-11-10 A wide ranging contribution to the debate about the impact of technological change on economic and social welfare **The Theory of Technological Change and Economic Growth** Stanislaw Gomulka,2017-08-21 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

Technological Change in the Modern Economy Paul R. Beije,1998 Technological Change in the Modern Economy presents an authoritative overview of the economics of technological change Using an empirical foundation it examines the economic causes and effects of technological innovation It also analyzes the process of innovation itself The author first provides an introduction to innovation and technical change He expands this to include issues such as innovation and economic growth the organization of innovation innovation and competition and the role of government He also discusses new topics such as technological cooperation the spillover effects of research the firm as a learning organization and national systems of

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