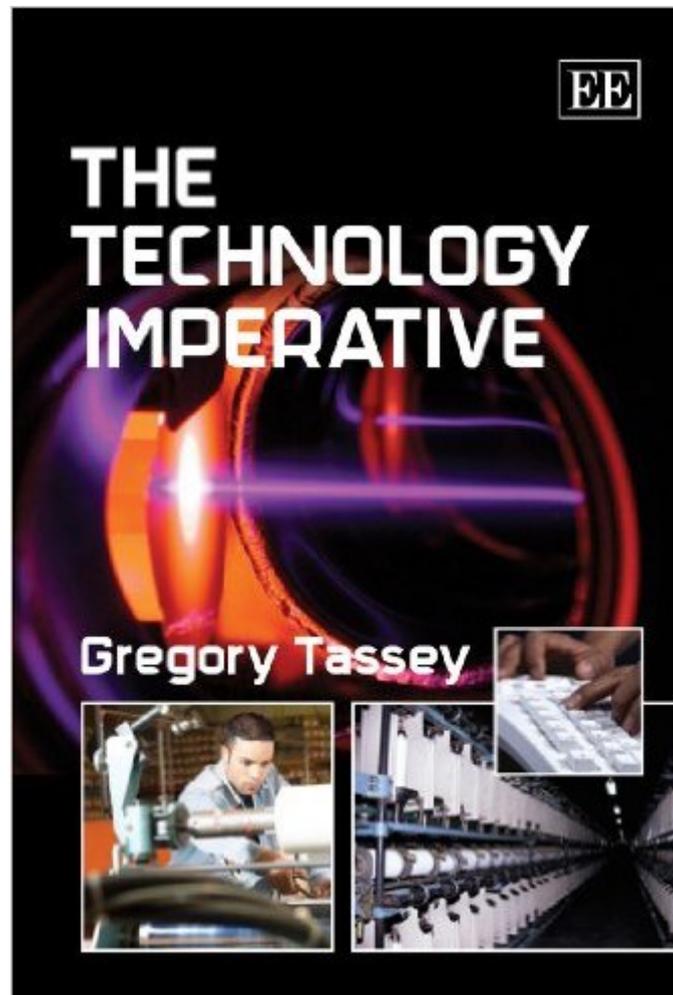


The book was found

# The Technology Imperative



## Synopsis

‘Page after page, this book builds a case of a major international transformation that has left the world economy much more dependent on science-driven technology. [The book’s] arguments should attract attention and deserve to be discussed widely and thoroughly.’- Nicholas S. Vonortas, The George Washington University, US

‘The innovative models, supporting data, and unique policy analyses make this book a must for economists, policy analysts, and industry managers concerned about S&T policies and economic growth. It could easily end up as a definitive work on the modern technology-based economy.’- Albert N. Link, University of North Carolina, Greensboro, US

The convergence of technology-based competitive capabilities among the world’s economies has drastically altered the required economic growth strategies in industrialized nations. Based on a variety of corporate and government investment trend data and comparisons among national growth strategies, Gregory Tassej examines how this convergence has created an imperative for new growth models and strategies. In particular, he analyzes the major policy mechanisms for stimulating R&D investment and improving R&D efficiency over technology life cycles, detailing the needed changes.

In the 65 years since Joseph Schumpeter’s classic characterization of the ‘creative destruction’ process of industrial technological change, the role of technology in economic growth has grown relentlessly. The author provides the first detailed assessment of underinvestment in R&D and the two major R&D policy response mechanisms - tax policy and direct funding. The policy models and analyses presented are based largely on US economic experience, but the resulting prescriptions are relevant for all existing and emerging technology-based economies. The author’s ultimate message is that the industry-centric Schumpeterian model must be expanded to one in which competition among governments is as important as it is within the private sector. This cutting-edge study will be of interest to science and technology policy researchers and analysts, economists focusing on the impacts of technological change, government managers of science and technology programs, and industry managers from high-tech firms.

Contents: Preface Part I: The Economics of Decline 1. Globalization of Technology 2. Indicators of Decline Part II: R&D in the Modern Economy 3. The Technology Paradigm 4. The Public-Private Growth Model 5. Underinvestment in R&D 6. Strategic Shifts in the IT Economy 7. The Technology Life Cycle 8. The Role of Technical Infrastructure Part III: Technology-Based Political Economy 9. Assessing the Government Role 10. Elements of STID Policy 11. To Compete or Not to Compete Bibliography Index

## Book Information

Paperback: 352 pages

Publisher: Edward Elgar Publishing (April 27, 2009)

Language: English

ISBN-10: 1848444699

ISBN-13: 978-1848444690

Product Dimensions: 0.8 x 6.2 x 9 inches

Shipping Weight: 1.1 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,327,157 in Books (See Top 100 in Books) #77 in Books > Engineering & Transportation > Engineering > Reference > Research #756 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Technology #8502 in Books > Textbooks > Business & Finance > Management

[Download to continue reading...](#)

The Technology Imperative The Offshore Imperative: Shell Oil's Search for Petroleum in Postwar America (Kenneth E. Montague Series in Oil and Business History) Israel, Jordan, and Palestine: The Two-State Imperative (Middle East Studies) Moral Imperative: A Patriotic Thriller (Corps Justice Book 7) The Territorial Imperative: A Personal Inquiry into the Animal Origins of Property and Nations Next Generation SOA: A Concise Introduction to Service Technology & Service-Oriented Architecture (The Prentice Hall Service Technology Series from Thomas Erl) Technology In Action Complete (13th Edition) (Evans, Martin & Poatsy, Technology in Action Series) Visualizing Technology Complete (5th Edition) (Geoghan Visualizing Technology Series) Robotics: The Beginner's Guide to Robotic Building, Technology, Mechanics, and Processes (Robotics, Mechanics, Technology, Robotic Building, Science) ECHO USER GUIDE: The Official User Guide For Using Your Echo ( technology mobile communication kindle alexa computer hardware) ( Echo ... & Technology Ebooks Hardware & DIY) Cloud Computing: Concepts, Technology & Architecture (The Prentice Hall Service Technology Series from Thomas Erl) Fashionable Technology: The Intersection of Design, Fashion, Science, and Technology Framing Production: Technology, Culture, and Change in the British Bicycle Industry (Inside Technology) Concrete Technology (Trade, Technology & Industry) Autonomous Vehicle Technology: A Guide for Policymakers (Transportation, Space, and Technology Program) Food Packaging Science and Technology (Packaging and Converting Technology) Foundations of Educational Technology: Integrative Approaches and Interdisciplinary Perspectives (Interdisciplinary Approaches to Educational Technology) Reeds Vol 14: Stealth Warship Technology (Reeds Marine Engineering and

Technology Series) Science and Technology in the Global Cold War (Transformations: Studies in the History of Science and Technology) Technology in the Law Office, Second Edition (Technology in the Law Office, Second Edition)

[Dmca](#)