

# **Management of New Technologies for Global Competitiveness**

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**Christian N. Madu**

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## **Management Of New Technologies For Global Competitiveness:**

*Management of New Technologies for Global Competitiveness* Christian Madu, 1993-06-30 Management of new technologies is a critical factor in achieving global competitiveness. A recent survey of managers in the United States revealed that the implementation of new and advanced technologies is the most popular strategy in achieving global competitiveness. This book explores the role of technology in that context. The book identifies the role of new technologies in improving quality and shows that adopting a strategic total quality management will in fact lead to improved productivity and survivability of the firm. A thorough comparison of the Japanese and American production management practices is presented. This in depth analysis helps to identify the problems of managing new technologies and shows that human resources management is a critical factor that should not be overlooked. Other strategies for improving global competitiveness are presented. Each of the five sections of the book deals with a major thrust that confronts management of new technologies. The book also discusses information system management and product design. The book uses real life cases, models and conceptual frameworks to support the views presented. Productivity, quality and competitiveness are all related to technology. The success of Japanese corporations in achieving quality management has impelled the U.S. executives to listen and re-evaluate their management practices. Increasingly many managers believe that new advanced technologies can contribute to improving the productivity, quality and competitiveness of a firm. However, simply adopting a new technology will not put an end to productivity and/or quality problems. This fact is most apparent in the case of computer integrated manufacturing. The islands of automation that have resulted convinced many that effective management of new technologies is necessary in order to exploit any potential benefits. This book focuses on efficient management techniques and looks at the critical areas that can enhance the performance of a firm as a result of the adoption of new technologies. The book is divided into five sections. The total quality management section contains four chapters that present a comparison between the Japanese and American production practices. This section also presents a new way to measure the performance of a firm not just by the direct quality of the product or service produced but also by the sensitivity and responsibility of the firm to environmental and greening issues. The selection and implementation of new technologies section discusses the problems associated with the cost accounting techniques in justifying new technologies and uses a multicriteria decision framework to show how this decision could be made. The strategic management section presents issues on production innovation and performance. The knowledge based techniques section investigates the role of artificial intelligence and expert systems in the management of new technologies. Finally, the product design and inventory management section discusses the role of product design and reduced lot sizes in achieving a competitive advantage.

*Managing Green Technologies for Global Competitiveness* Christian Madu, 1996-01-09 Environmental quality

Robinchandra Singh, 2013      *Management Of New Technologies For Global Competitiveness* Madu Christian N, 1995

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management is seen as a competitive strategy that could help a firm improve its bottom line. It is argued that being environmentally correct is good business that can provide competitive advantage to the firm in the long term and help it to survive and remain in business. To achieve environmental quality, top management must take the lead and refocus its objectives by redefining its customers. Rather than a focus only on direct customers who are consumers of the product, emphasis should be on the stakeholders of the environment since they can potentially influence the cost of doing business. The book starts by tracing the relationship between technology and the environment. Clearly the quality of life we enjoy today is to a large extent a result of technological advances. However, environmental pollution is a byproduct of such advances and has contributed to declining the quality of life. Sustainable development is increasingly seen as a way of both maintaining technological advances and environmental quality. However, many have argued against sustainable development without looking at its long term goals and its potential of helping a business improve its bottom line and competitiveness. Clearly there is a need for strategic planning in order to remain competitive through environmental quality planning. A corporate environmental quality model is therefore needed. Environmental quality management can also benefit from developments in the total quality management area. A great deal of attention is focused on how this could be achieved by adopting tools from total quality management, establishing environmental quality award programs and conducting environmental quality assessment. The book concludes by focusing on the needs to conserve the earth's limited natural resources and discussing some of the major environmental laws in the United States designed to protect the environment.

*Dynamic Strategic Thinking for Improved Competitiveness and Performance* Andraz, Georgette, Carrasqueira, Helder, Pereira, Rosaria, Baleiro, Rita, 2020-06-19. Competition in today's global economy has become more complex due to the adoption of digitization and advanced methods of performance. Firms are compelled to adapt to new challenges that are altering the economic scope while maintaining a competitive edge. Empirical research is needed that highlights innovative and dynamic strategies that will allow corporations to maintain a level of sustainability and remain competitive in the global market. *Dynamic Strategic Thinking for Improved Competitiveness and Performance* provides emerging research exploring the innovative methods organizations have implemented in order to improve their overall effectiveness. This book analyzes novel strategies companies are using to adjust and respond to modern challenges including globalization and digitization. Featuring coverage on a broad range of topics such as digital business, social media and human capital, this book is ideally designed for researchers, policymakers, managers, practitioners, executives, government officials, students and academicians seeking research on modern strategic performance methods for improving corporate sustainability and competitiveness.

Handbook of Research on Global Competitive Advantage through Innovation and Entrepreneurship Carmo Farinha, Luís M., Ferreira, João J. M., Smith, Helen Lawton, Bagchi-Sen, Sharmistha, 2015-04-30. As businesses seek to compete on a global stage, they must be constantly aware of pressures from all levels: regional, local and worldwide. The organizations that can best

build advantages in diverse environments achieve the greatest success The Handbook of Research on Global Competitive Advantage through Innovation and Entrepreneurship explores the emergence of new ideas and opportunities in various markets and provides organizational leaders with the tools they need to take full advantage of those opportunities With a focus on economic growth in a fast paced environment this handbook is a critical reference for business leaders economists and students of economic theory **Restoring America's Global Competitiveness through Innovation** Ben L.

Kedia,Subhash C. Jain,2013-09-30 America is at the frontier of modern technological and scientific advances and sustaining economic growth depends substantially on its ability to advance that frontier This insightful book provides some important ideas to enhance this process The con **New Technologies for Enhancing Competitiveness and Productivity in Selected Sectors** ,2001 **The Global Competitiveness Report 2008-2009** Klaus Schwab,2008 Enhancing Global Competitiveness A. N. Sarkar,2009 In terms of overall orientation this book has been so conceived and structured that it has followed a certain natural corollary and logical framework in comparing Indian economy with the Asian and the global economy in respect to the sectors wherein India is perceived to play a leadership role both in the regional and the global context Secondly an attempt has also been made to identify areas where India despite possessing a huge potential could not so far convincingly demonstrate its competitive advantage to compete globally Thirdly competitive advantages in certain chosen fields wherein India can excel and outperform its competitors are elaborated and highlighted with broad indication of the future strategy Last but not the least the book has dealt with the various sectoral investment opportunities in India for achieving global competitiveness *Information and Communication Technology Strategies to Improve International Competitiveness in the Wholesale and Retail Trade Sector* Seon Levius,2018-09-17 Research Paper undergraduate from the year 2018 in the subject Business economics Business Management Corporate Governance grade 4 0 language English abstract The study explored the Information and Communication Technology ICT strategies that managers of Barbados s wholesale trade businesses use to improve international competitiveness in Barbados The resource based view theory was the conceptual framework for this study Data collection included semi structured interviews with 15 business managers participant observation and organizational document analysis Data analysis and methodological triangulation revealed 4 themes that helped to understand the findings within the context of the research question and the purpose of the study These themes included competitive position and response internal factors IT specific factors and ICT experiences Implications of social change include providing business managers with specific knowledge on ICT strategies used to improve international competitiveness in Barbados and an understanding of desirable and undesirable perspectives held regarding these strategies **The Indian Journal of Commerce** ,2002 *Global Competitive Strategy* Daniel F. Spulber,2007-07-02 Globalization has fundamentally changed the game of business Strategic frameworks developed for the analysis of purely domestic business necessarily fall short in the international business context Managers and business students require alternative

approaches to understand and cope with these far reaching changes We must learn to think globally in order to succeed Global Competitive Strategy shows how we can do this by providing a unique set of strategic tools for international business Such tools include the star analysis that allows strategy makers to integrate geographic information with market information about the global business environment Also introduced is the global value connection that shows managers how to account for the gains from trade and the costs of trade Aimed at MBA students taking courses in international strategy consultants and practising managers with responsibility for strategic development this 2007 book offers a comprehensive strategic framework for gaining competitive advantage in the global marketplace

**Factors Affecting U.S. International Competitiveness** United States. Congress. House. Committee on Ways and Means,1992 **International Competitiveness** Economic Development Institute (Washington, D.C.),1991 Progress in Production Engineering Jens P. Wulfsberg,Benny Röhlig,Tobias Montag,2015-10-05 WGP Congress 2015 Selected peer reviewed papers from the 2015 WGP Congress September 7 8 2015 Hamburg Germany

**Flexible Manufacturing Technologies and International Competitiveness** Joseph Tidd,1991 The drive to reduce costs and enhance competitiveness in manufacturing industry has led to greatly increased interest in industrial automation particularly for small and medium sized enterprises Although manufacturing robots and flexible machining systems FMS are no longer the exclusive preserve of the major industrial multi nationals their adoption has not been as widespread or as effective as was once predicted The purpose of this book is to examine the international patterns of development and adoption of flexible automated manufacturing to identify current and future best practice particularly in the emerging technology of robotic assembly and to show how technology industrial flexibility and competitiveness are inter related

**Global Competitive Strategies in the New World Economy** Hafiz Mirza,1998 This important book provides an exhaustive analysis of the strategic responses of transnational firms to current trends in the world economy specifically the trends towards globalization and regionalization The primary focus of this book is on the strategy of transnational firms particularly those from East Asia in the geographical regions of Europe North America and Asia including the European Union the North American Free Trade Agreement and the ASEAN Free Trade Area The contributors discuss protectionism and trade agreements strategic alliances competitiveness and investment strategy towards Eastern European states and compare business strategies in the triad region The distinguished contributors are from industry academia and international organizations and have first rate detailed knowledge of the issues raised Their approach is policy oriented and they use case studies of Toshiba Toyota Samsung and the Notebook PC Consortium to illustrate the investment strategies of East Asian firms This book will offer insights to scholars and students seeking to understand East Asian and European firms the topics of globalisation and regionalisation It will also appeal to policymakers wishing to influence and understand the strategies of transnational firms

Proceedings, Managing the High Technology Firm Luis R. Gomez-Mejia,Michael W. Lawless,1988 Barron's Guide to Graduate Business Schools ,2005

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