

# **Economic and Financial Justification of Advanced Manufacturing Technologies**

Edited by

**Hamid R. Parsaei  
William G. Sullivan  
Thomas R. Hanley**

# Economic And Financial Justification Of Advanced Manufacturing Technologies Manufacturing Research And Technology

**Paul M. Swamidass**



## **Economic And Financial Justification Of Advanced Manufacturing Technologies Manufacturing Research And Technology:**

**Economic and Financial Justification of Advanced Manufacturing Technologies** Hamid R. Parsaei, W.G. Sullivan, T.R. Hanley, 2013-10-22 Competence in investment analysis is now a basic requirement for most practicing managers engineers and financial analysts in order to avoid possible serious mistakes arising from flawed or inadequate knowledge of the discipline Furthermore individuals who make decisions based on technical economics stake their professional futures in many cases on the accuracy of such evaluations The aim of this volume is to provide a balanced view of the essential components of economic and financial analysis including 1 Strategic and design issues 2 Principles of cost management systems and activity based costing and 3 Tools for developing the financial measures of investment worth with advanced topics and case studies in these three areas This volume provides a refreshing insight into the various methods that engineers managers and financial analysts may need to consider to find good alternatives for the investment of scarce resources Not only are new ventures presented but also improvements within existing facilities that include process modification product design equipment replacement and plant expansion contraction *Investment Decisions in Advanced Manufacturing Technology* Magdy G. Abdel-Kader, David Dugdale, Peter Taylor, 2018-12-20 First published in 1998 this volume was designed to lead to an operational model of Advanced Manufacturing Technology AMT decision making which incorporated the mathematics of fuzzy set theory The rapid advancement of robotics automated technologies and software such as CAD and CAM have made such studies paramount Here analyses of a questionnaire survey and field study of major UK manufacturing companies together provide a simulating portrayal of AMT investment decision making and have been expanded upon with a model using fuzzy set theory *Economic Evaluation of Advance Technologies* Jerome P. Lavelle, Hampton R Liggett, Hamid R. Parsaei, 2001-12-14 This text illuminates the contemporary issues and technologies related to the economic evaluation and justification of advanced technologies Included are modern tools as well as application based cases that demonstrate the use of these tools Students researchers and decision makers will benefit from this useful resource **Economics of Advanced Manufacturing Systems** Hamid R. Parsaei, A. Mital, 2012-12-06 The 1980s have witnessed a tremendous growth in the field of computer integrated manufacturing systems The other major areas of development have been computer aided design computer aided manufacturing industrial robotics automated assembly cellular and modular material handling computer networking and office automation to name just a few These new technologies are generally capital intensive and do not conform to traditional cost structures The net result is a tremendous change in the way costs should be estimated and economic analyses performed The majority of existing engineering economy texts still profess application of traditional analysis methods But as was men tioned above it is clear that the basic trend in manufacturing industries is itself changing So it is quite obvious that the practice of traditional economic analysis methods

should change too This book is an attempt to address the various issues associated with non traditional methods for evaluation of advanced computer integrated technologies This volume consists of twenty refereed articles which are grouped into five parts Part one Economic Justification Methods consists of six articles In the first paper Soni et al present a new classification for economic justification methods for advanced automated manufacturing systems In the second Henghold and LeClair look at strengths and weaknesses of expert systems in general and more specifically an application aimed at investment justification in advanced technology The third paper by Carrasco and Lee proposes an enhanced economic methodology to improve the needs analysis conceptual design and detailed design activities associated with technology modernization

**Computer Integrated Manufacturing (CIM) in Japan** V. Sandoval, 2016-07-29 Presented in this book are some of the most relevant aspects of Computer Integrated Manufacturing CIM in Japan The volume compares the development of CIM in the context of Japan as well as that of Europe and the United States It includes studies of the implemented CIM systems in many companies In addition the book contains a study concerning Intelligent Manufacturing Systems IMS and the basis for preparation of the so called Future Generation of Manufacturing Systems FGMS This volume gives a better understanding of Japanese competitiveness using advanced technology People coming from the manufacturing industry managers engineers officials and researchers will find in this book a rich source of material for understanding the crucial elements in technology development and its actual and future implementation

**Planning, Design, and Analysis of Cellular Manufacturing Systems** A.K. Kamrani, H.R. Parsaei, D.H. Liles, 1995-04-11 Leading researchers in the field of cellular manufacturing systems from academia and industry have contributed to this volume The book aims to report the latest developments and address the central issues in the design and implementation of cellular manufacturing systems Cellular Manufacturing CM is one of the major concepts used in the design of flexible manufacturing systems CM also known as group production or family programming can be described as a manufacturing technique that produces families of parts within a single line or cell of machines The first part of the book describes various techniques for design and modeling of cellular manufacturing systems The second part is concerned with performance measure and analysis followed by a section which presents the applications of artificial intelligence and computer tools in cellular manufacturing systems

**Flexible Manufacturing Systems: Recent Developments** A. Raouf, M. Ben-Daya, 1995-02-09 Flexible Manufacturing Systems FMS involve substituting machines capable of performing a wide and redefinable variety of tasks for machines dedicated to the performance of specific tasks FMS can also be programmed to handle new products thus extending the machines life cycles Thus they represent a change from standardized goods produced by customized machines to customized goods produced by standardized machines This volume contains new and updated material in this field and will be of great interest to researchers managers and students concerned with problems related to flexible manufacturing systems

**Advances in Factories of the Future, CIM and Robotics** M. Cotsaftis, F. Vernadat, 2013-10-22 Productivity enhancement is a major

concern for all manufacturing enterprises Productivity enhancement can be achieved in many ways and many facets of its problems have been investigated over the last decades A number of methods tools and technologies have emerged to efficiently increase productivity and rationalize management of manufacturing enterprises International experts from both academia and industry share their experiences in this collection of articles contributing to the latest advances in the many facets of productivity enhancement in manufacturing enterprises Themes and visions are detailed on factories of the future new management approaches manufacturing system integration and manufacturing information systems These technical areas can be grouped into four major sections Factories of the future Techniques and tools for automated manufacturing Robotics and Industrial applications The papers illustrate a pattern of valuable and interesting approaches to the fascinating problem of designing a new generation of robots with high enough performance capabilities to be used in an industrial context

**Advances in Feature Based Manufacturing** J.J. Shah,M. Mäntylä,D.S. Nau,2013-10-22 Well known researchers in all areas related to featured based manufacturing have contributed chapters to this book Some of the chapters are surveys while others review a specific technique All contributions including those from the editors were thoroughly refereed The goal of the book is to provide a comprehensive picture of the present stage of development of Features Technology from the point of view of applications in manufacturing The book is aimed at several audiences Firstly it provides the research community with an overview of the present state of the art features in manufacturing along with references in the literature Secondly the book will be useful as supporting material for a graduate level course on product modeling and realization Finally the book will also be valuable to industrial companies who are assessing the significance of features for their business

**Manufacturing Decision Support Systems** Hamid R. Parsaei,Thomas R. Hanley,S.S. Kolli,2012-12-06 During the last two decades a tremendous growth in the popularity and applications of computers in manufacturing has occurred Computer aided design computer aided manufacturing flexible manufacturing systems group technology and many others are considered by many manufacturing executives as the most promising technologies and philosophies that if successfully implemented can reduce costs and enable the US manufacturing companies to become more competitive in the global market In the computer integrated manufacturing environment the decision processes are often more involved The decision makers are frequently required to have access to a vast amount of data to support and analyze their complex decision problems at strategic and tactical levels Decision support systems are often referred to as computer based information technologies that allow the decision makers to interactively communicate and solve the decision problems Manufacturing Decision Support Systems is intended to report the latest developments and address the central issues in this area This volume consists of 14 refereed chapters written by leading researchers from academia and industry

Innovations in Supply Chain Management for Information Systems: Novel Approaches Wang, John,2009-10-31 The intersection of supply chain management and e business information systems is a significant topic for the modern business

world as understanding which technologies will most effectively enable innovative practices is a key management competency

Innovations in Supply Chain Management for Information Systems Novel Approaches presents exemplary research on the interface between these two fields useful to academicians and practitioners keen on streamlining concurrently both information and materials flows across the supply chains This advanced publication provides recent examinations as well as future directions of development

*Issues in Accounting and Finance* Peter Atrill,Lindsey Lindley,2019-01-04 First published in 1997 this volume and its contributors take stock of current issues in accounting and finance Featuring specialists in business accounting finance along with Vice Chancellor John Bull they examine areas including auditors decision making financial shocks the European corporate capital structure GPs accounting education and professional journals

Encyclopedia of Production and Manufacturing Management Paul M. Swamidass,2006-09-21 The Encyclopedia of Production and Manufacturing Management is an encyclopedia that has been developed to serve this field as the fundamental reference work Over the past twenty years the field of production and operations management has grown more rapidly than ever and consequently its boundaries have been stretched in all directions For example in the last two decades production and manufacturing management absorbed in rapid succession several new production management concepts manufacturing strategy focused factory just in time manufacturing concurrent engineering total quality management supply chain management flexible manufacturing systems lean production and mass customization to name a few This explosive growth makes the need for this volume abundantly clear The manufacturing industry thinks and acts more broadly than it did several decades ago The most notable change has been the need for manufacturing managers to think in technological strategic and competitive terms This is a very favorable development and it leads to manufacturing success The entries in this encyclopedia include the most recent technical and strategic innovations in production and manufacturing management The encyclopedia consists of articles of varying lengths The longer articles on important concepts and practices range from five to fifteen pages There are about 100 such articles written by nearly 100 authors from around the world In addition there are over 1000 shorter entries on concepts practices and principles The range of topics and depth of coverage is intended to suit both student and professional audiences The shorter entries provide digests of unfamiliar and complicated subjects Difficult subjects are made intelligible to the reader without oversimplification The strategic and technological perspectives on various topics give this Encyclopedia its distinctiveness and uniqueness The world of manufacturing today is increasingly competitive It is apparent that manufacturers must respond to these competitive pressures with technical and strategic innovation This encyclopedia has been developed to help researchers students and those in the manufacturing industry to understand and implement these ongoing changes in the field

Managing Industrial Development Projects Adedeji Bodunde Badiru,1993-07-07 Conventional public management techniques in industrial management projects are often insufficient because they cannot respond or adapt to the dynamism of modern and global markets This guide shows

how to overcome these problems by using project management techniques that expedite industrial development in regional national and global settings Using real world examples and a systems approach the author provides a project management model that accounts for all critical interfaces in industrial development projects He explores every aspect of project planning and organization as well as cultural and human resource issues Key areas discussed include how to Schedule and control projects Conduct and evaluate project feasibility studies Select a project manager and staff the project Secure the best experts for various project functions Expedite transfer of industrial technology from developed to developing nations Coverage of budgeting and cash flow analysis promotes understanding of the cost aspects of projects Readers are shown how to use the Critical Path Method and Program Evaluation and Review Techniques to streamline project scheduling They also find out how to use learning curve analysis to evaluate project performance Guidelines on managing multinational projects are supplemented with case studies that illustrate successful industrial development in different countries Appendices list numerous research industrial and economic resources as well as United Nations information sources Managing Industrial Development Projects paves the way for successful outcomes in countries that need them most It is a valuable reference for practitioners public administrators and national policy makers as well as students in industrial engineering industrial administration engineering management and public administration programs

**Journal of Engineering and Technology Management** Michael K. Badawy,Afie M. Badawy,1995 **Handbook of Management Accounting Research** Christopher S. Chapman,Anthony G. Hopwood,Michael D. Shields,2011-09-14 Volume two of the Handbooks of Management Accounting Research consists of two groups of chapters The first draw together research that has focussed on particular management accounting practices The second set synthesise contributions to the literature that have been focussed within particular organisational contexts Volume two concludes with a review of research on how management accounting practice and research varies around the world Special pricing available if purchased as a set with Volume 1 Documents the scholarly management accounting literature Publishing both in print and online through Science Direct International in scope

**International Journal of Production Economics** ,2002 **Modelling and Analysis of Enterprise Information Systems** Gunasekaran, Angappa,2007-03-31 This book presents comprehensive coverage and understanding of the organizational and technological issues of enterprise information systems It covers current trends such as enterprise resource planning and electronic commerce and their implications on supply chain management and organizational competitiveness Provided by publisher **Encyclopedia of Technology and Innovation Management** V. K. Narayanan,Gina Colarelli O'Connor,2010-03-08 Get complete up to date and authoritative coverage of technology and innovation A broadly encompassing encyclopedia on the emerging topic of technology innovation and management TIM this volume covers a wide array of issues TIM is a relatively new field and is highly interdisciplinary incorporating strategy and entrepreneurship economics marketing organizational behavior organization theory physical and life sciences and even law

All of these disciplines are represented in this volume and their intersections are made clear Entries are contributed by scholars from around the world who are leading experts in their respective topics This volume is appropriate for scholars who are new to this particular field as well as industry practitioners interested in understanding the state of knowledge in these specific areas Entries may also serve as useful instructional materials given their span of coverage as well as their currency Encyclopedia of Technology and Innovation Management has now been adapted and included as the 13th volume of the Wiley Encyclopedia of Management VK Narayanan is Stubbs Professor of Strategy Entrepreneurship and Associate Dean of Research at Drexel University Philadelphia U S A Gina O Connor is Associate Professor of Marketing in the Lally School of Management and Technology at Rensselaer Polytechnic Institute Troy NY U S A     *THE ENGINEERING ECONOMIST A JOURNAL DEVOTED TO THE PROBLEMS OF CAPITAL INVESTMENT FALL 1995 VOLUME 41 NO 1 ,1995*



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