MANAGEMENT

MANAGING EFFECTIVELY
IN
TECHNOLOGY-INTENSIVE
ORGANIZATIONS

HANS J. THAMHAIN

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Engineering Management Hans J. Thamhain, 1992 Competing effectively in a complex global marketplace requires more than just having technological parity with foreign countries It also requires the effective management of that technology the people the organizations processes and overall resources Modern management tools have been developed that can respond to this challenge but many of today s busy managers caught up in the necessary rush to generate new products processes and services haven theard the good news Hans Thamhain's Engineering Management gets the good word out clearly and forcefully He skillfully combines 20 years of R stimulate innovative performance oversee technical projects and engineering work manage new product developments faster and more cost effectively exercise financial control over projects measure financial control over projects effectively utilize computer based decision support systems allocate your peopleand other resources most effectively understand joint responsibilities organizational interfaces and team buildings integrate total quality management efforts manage conflict change and development develop winning bid proposals and more The appendices in Engineering Management build on the principles and techniques discussed in the book s 15 chapters providing management guidelines in such areas as project planning tracking and control as well as new business acquisition A sweeping mandate for improving technology based organizations through the effective control of their resources Engineering Management should be required reading for every engineering technical product project and R D manager It will also prove to be an important text for instructors of advanced undergraduate courses in engineering business and management Management of Technology Hans J. Thamhain, 2013-10-11 Presents assessment methods for organization and managementprocesses Provides special tools and techniques for managing and organizingR D new product and project oriented challenges Includes real world case studies Managing Innovation and Entrepreneurship in **Technology-Based Firms** Michael J. C. Martin, 1994-09-28 Describes principles and methodologies necessary to build efficient and highly productive work systems in high tech organizations that must develop and deploy new products in a timely fashion with competitive advantage Presents techniques applicable to small high tech consumer products or large complex systems requiring cost control waste minimization and rapid product development Stresses methodologies to be used for strategic advantage Suggests diverse strategic plans and their pros and cons depending on the product and markets

Project Management in Manufacturing and High Technology Operations Adedeji Bodunde Badiru,1996-06-07 Project management is a system originally developed within the construction industry for controlling schedules costs and specifications of large multitask projects In recent years manufacturers have discovered that project management s time tested techniques dovetail neatly with the current thinking on quality control and management in a highly competitive global marketplace The system has been increasingly recognized for its suitability in the manufacturing process and is now applied in virtually every area of production One of the foremost proponents of this trend is Adedeji Badiru an internationally

recognized authority on project management whose books have helped thousands of companies adapt the system to their particular needs This completely revised Second Edition of Badiru s breakthrough publication Project Management in Manufacturing and High Technology Operations focuses on the dramatic increase in the use of high tech machinery in industrial operations and seamlessly integrates high tech themes into a general discussion of project management An introductory chapter on manufacturing analysis investigates how the latest concepts and techniques of project management are applied to manufacturing The main body of the book offers a wealth of new material including discussions of learning curve analysis basic models for forecasting and inventory control economic analysis of manufacturing techniques for data analysis and the application of expert systems The chapter on computer applications in project management is completely revised and updated to reflect the enormous strides taken in this area in recent years. This book presents an up to date practical approach to project management in manufacturing Written by a pioneer in the application of project management to the manufacturing industries this revised and expanded Second Edition of Project Management in Manufacturing and High Technology Operations reflects the increased use of high tech machinery in industrial operations and the trends of recent years to apply project management methods to every phase of production Complete with numerous illustrations as well as exercises to wrap up each chapter this Second Edition features An emphasis on practical examples including many new case studies and a full chapter on the lessons learned from the space shuttle Challenger disaster Many new project management concepts and techniques that focus on manufacturing but can be applied to any project A new chapter on manufacturing systems analysis that provides the backdrop for the project analysis that takes place throughout the book Expanded discussions of the latest quantitative and managerial approaches including learning curve analysis basic models for forecasting and inventory control economic analysis of manufacturing techniques for data analysis and the application of expert systems A strong international perspective useful for multinational companies and for academic purposes This book equips engineers and managers with the tools to effectively manage all aspects of a project including quality control schedules and expenses Used as a text in engineering or business courses it offers absorbing supplemental reading for students at the upper undergraduate and graduate levels Professor Badiru has been widely praised for his incisive and highly relevant case studies In this Second Edition the case study approach is expanded so that chapters typically include two real world examples of the project management techniques or issues in question In the final chapter Badiru takes a close and painful look at a high tech disaster the explosion of the space shuttle Challenger He offers rare and instructive insight into the devastating failure of a high tech project still poignant despite the passage of time Communicative throughout this volume provides a solid up to date reference for engineers and managers in manufacturing as well as for consultants and administrators in related fields Professor Badiru s proven reputation for providing interesting lecture material also makes Project Management in Manufacturing and High Technology Operations especially useful as a technology management text

in both engineering and business schools Cover Design Illustration David Levy Management of Technology Hans J. Thamhain, 2015-05-14 vorgestellt werden die modernsten Managementkonzepte Hilfsmittel und Methoden die auch in technologieintensiven Unternehmensbereichen einwandfrei funktionieren Schwerpunkte liegen auf Proze integration Managementwerkzeugen und Personalentwicklung Principles of Engineering Management Jishan He, 2023-09-20 This book presents a comprehensive overview of engineering management giving readers a complete picture of this research field Following an introduction the book explores Engineering Management Ontology Engineering Management Epistemology Engineering Management Methodology Engineering Management Decision Theory Engineering Management Organization Theory Engineering Management Value Theory Engineering Management Innovation Theory Engineering Management Environment Theory Engineering Management Humanities Engineering Management Ethics Theory The book includes case studies that demonstrate how various concepts can be practically applied to resolve real world problems The book is a valuable read for professionals of engineering management management and systems engineering

Management of Research and Development Organizations Ravinder Kumar Jain, Harry C. Triandis, 1997 This edition has been completely revised The authors noted authorities in the field focus on ways to improve R D organization productivity and foster excellence in such companies They describe how to design jobs organize hierarchies resolve conflicts motivate employees and create an innovative work environment Features extensive cross cultural coverage of European and Pacific Rim R D organizations and policies which greatly differ from the US Includes an entirely new section on various strategic planning elements unique to an R D organization along with a case study The Technology Management Handbook Richard C. Dorf, 1998-07-27 If you are not already in a management position chances are you soon will be According to the Bureau of Statistics the fastest growing areas of employment for engineers are in engineering science management With over 200 contributing authors The Technology Management Handbook informs and assists the more than 1 5 million engineering managers in the practice of technical management Written from the technical manager's perspective and written for technologists who are managers The Technology Management Handbook presents in depth information on the science and practice of management Its comprehensive coverage encompasses the field of technology management offering information on Entrepreneurship Innovations Economics Marketing Product Development Manufacturing Finance Accounting Project Management Human Resources International Business **Managing Technology-Based Projects** Hans J. Thamhain, 2014-03-12 A GUIDE TO EFFECTIVE PROJECT MANAGEMENT IN TECHNOLOGY BASED FIRMS Used effectively project management can increase a firm s market share product quality and customer satisfaction Though technology based companies place themselves at a competitive disadvantage if they neglect this strategic tool many overlook project management s benefits because they see themselves as continuously adapting organizations. In reality this role makes project management even more vital Managing Technology Based Projects imparts the latest approaches and tools essential

to lead a successful technology based project It outlines the practical integration of project management with four key areas strategic alignment of projects within the enterprise the project management process and its organizational support system invaluable tools and techniques and the individual and group leadership within a project s organization Complete with examples of industrial applications the book includes Methods for defining key performance indicators and assessing project management process effectiveness Suggestions for fine tuning and continuous improvement Practical case scenarios discussion topics end of chapter reviews and exercises Attention to project management as it applies to a globalized business No one in a managerial role should be without Thamhain's expert advice This guidebook is your road map to successfully incorporating enterprise project management into technology based work Industry's Guide to ISO 9000 Adedeji Bodunde Badiru, 1995-05-29 Industry's Guide to ISO 9000 offers a complete reference book for industry practitioners It emphasizes technical and managerial processes especially project management techniques to implement changes at the product development level Because personnel play a central role in the ISO 9000 standard Industry's Guide to ISO 9000 focuses on people related issues and shows how with proper management normally arduous procedures can be made easier for all concerned Practitioners in all functional areas of business and industry industrial and systems engineers process engineers designers R D managers plant managers production supervisors manufacturing engineers and quality engineers will find Industry's Guide to ISO 9000 an essential guide to professional success Organization Management in Construction Paul S. Chinowsky, Anthony D. Songer, 2011-01-12 Today s construction environment is changing at an unprecedented pace and executives are facing a diverse set of issues globalization economics workforce demographics and technology Moreover the traditional issues of competition and delivery are being challenged by new laws and new industry entrants and the tasks of project and organization management are being overhauled. This all demands greater leadership from senior management Construction executives typically reach senior level after many years mastering the art of project management which has given them very little time or opportunity to learn the concepts and principles of organization leadership unlike their counterparts in other industries who have been steeped in this This book provides a comprehensive overview of the key issues that organization leaders must understand and address It provides concise summaries by leading international authorities of the ten key strategic management issues shows how they have emerged and outlines their potential impact on the construction organization Applied Project Management, Managing Technological Innovation Frederick Betz, 1998 In this new volume Frederick Betz addresses industrial technology issues from two different perspectives management concepts and technical concepts distinguishes between the technology management needs of government and industry provides a contemporary overview of MOT from one of its original creators clarifies complex issues and helps the reader visualize future MOT problems and describes economic development in the historical context of scientific change Financial and Cost Analysis Henry E. Riggs, 1994-08-16 Combines financial and managerial cost

accounting focusing on the concepts underlying accounting systems statements and reports most commonly encountered in industry today along with the analysis of those reports and statements As procedures and analytical techniques are introduced the role of compromises estimates assumptions and omissions is emphasized Contains a large number and diversity of end of chapter problems plus discussion questions and four case studies Engineering Management C. M. Chang, 2016-11-25 Engineering Management Meeting the Global Challenges prepares engineers to fulfill their managerial responsibilities acquire useful business perspectives and take on the much needed leadership roles to meet the challenges in the new millennium Value addition customer focus and business perspectives are emphasized throughout Also underlined are discussions of leadership attributes steps to acquire these attributes the areas engineering managers are expected to add value the web based tools which can be aggressively applied to develop and sustain competitive advantages the opportunities offered by market expansion into global regions and the preparations required for engineering managers to become global leaders The book is organized into three major sections functions of engineering management business fundamentals for engineering managers and engineering management in the new millennium This second edition refocuses on the new strategy for science technology engineering and math STEM professionals and managers to meet the global challenges through the creation of strategic differentiation and operational excellence Major revisions include a new chapter on creativity and innovation a new chapter on operational excellence and combination of the chapters on financial accounting and financial management The design strategy for this second edition strives for achieving the T shaped competencies with both broad based perspectives and in depth analytical skills Such a background is viewed as essential for STEM professionals and managers to exert a strong leadership role in the dynamic and challenging marketplace The material in this book will surely help engineering managers play key leadership roles in their organizations by optimally applying their combined strengths in engineering and management **Project Management** David I. Cleland, 1994 Shows managers and planners how to use the management of projects as the building blocks for the design and execution of organizational strategies This second edition features many new project management examples plus important new chapters on team management product process design teams and concurrent engineering to name a few Includes illustrations and index Research and Development Project Selection Joseph P. Martino, 1995-03-20 Just as importantly this unique guide provides R D managers with clear guidelines on how to effectively tailor the various selection methods discussed to meet the demands of their organizations unique situations and goals Introduction to Managing Technology Mario W. Cardullo, 1996 This text was originally structured for an introductory course in the Masters Degree in engineering administration and management as run by the author International Journal of Continuing Engineering Education, 2003 **International Journal of Technology Management** ,1999

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