

Facilities Planning Tompkins

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tompkins white bozer tanchoco is the leading facilities planning book on the market today its blending of breadth and depth of coverage are unmatched thousands of engineering students and practitioners have used the book to prepare them to design new facilities and expand or renovate existing facilities the book combines applied aspects with proven quantitative methodologies it carries the reader through the entire process of planning facilities regardless of the application settings for the facilities

new production techniques new material handling equipment larger investments higher expectations when it comes to facilities planning there is no room for business as usual today every company must insist on the highest return on their investment not just to prosper but to survive updated with the latest advances facilities planning third edition introduces current practices and shows how to approach facilities planning with creativity and precision the text guides you through each step in the planning process from defining requirements to developing alternative material handling techniques and manufacturing warehouse operations to selecting and evaluating facilities plans you'll learn how to apply quantitative tools and the engineering design principles to achieve highly effective efficient and successful plans highlights of the third edition expanded coverage of cost justification safety cellular management and computer based training brings new trends to light detailed real world examples and problems provide insights into current facilities planning practices new photos introduce you to the latest material handling equipment more quantitative problems and a greater variety of helpful questions help you apply the material to your work information on software applications such as visfactory introduces you to the new technologies that are affecting facilities planning

updated with the latest advances facilities planning third edition introduces current industry practices and shows how to approach facilities planning with creativity precision and analytic techniques that encourage quantitative thinking the text guides you through each step in the planning process from defining requirements to developing alternative material handling techniques and manufacturing warehouse operations to selecting and evaluating facilities plans you'll learn how to apply quantitative tools and engineering design principles to achieve highly effective efficient and successful plans defining requirements developing alternatives concepts and techniques facility design for various facilities functions developing alternatives quantitative approaches evaluating selecting preparing presenting implementing and maintaining

this revision incorporates all the significant advances that have occurred in the past decade including advances in facilities planning material handling and computing technologies as well as engineering and management philosophies it focuses on the determination of the requirements for people equipment space and material in the facility it presents concepts and techniques to facilitate the generation of alternative facilities plans and continues to focus on generating alternative facilities plans it also presents a variety of quantitative approaches that can be used to model specific aspects of facilities planning problems and discusses the treatment of facilities planning

in a context of global competition the optimization of logistics systems is inescapable logistics systems design and optimization falls within this perspective and presents twelve chapters that well illustrate the variety and the complexity of logistics activities

each chapter is written by recognized researchers who have been commissioned to survey a specific topic or emerging area of logistics the first chapter by riopel langevin and campbell develops a framework for the entire book it classifies logistics decisions and highlights the relevant linkages to logistics decisions the intricacy of these linkages demonstrates how thoroughly the decisions are interrelated and underscores the complexity of managing logistics activities each of the chapters focus on quantitative methods for the design and optimization of logistics systems

introducing various contemporary practices this book shows how to approach facilities planning with precision it guides the reader through each step in the planning process from defining requirements to developing alternative material handling techniques and manufacturing waterhouse operations to selecting and evaluating facilities plans

this book provides comprehensive coverage of issues that facility managers in the property industry need to understand and apply in the pursuit of value for money over the life span of built facilities the authors introduce the fast growing discipline of facility management examine the core competencies that facility managers should possess and study different contemporary drivers of change the book emphasises the need to consider facilities management issues at the pre design stage of the construction process rather than only when the building is completed in order to maximise value for money

winner of the 2003 shingo prize reorganizing work processes into cells has helped many organizations streamline operations shorten lead times increase quality and lower costs cellular manufacturing is a powerful concept that is simple to understand however its ultimate success depends on deciding where cells fit into your organization and then applying the know how to design implement and operate them reorganizing the factory presents a thoroughly researched and comprehensive life cycle approach to competing through cellular work organizations it takes you from the basic cell concept and its benefits through the process of justifying designing implementing operating and improving this new type of work organization in offices and on the factory floor the book discusses many important technical dimensions such as factory analysis cell design planning and control systems and principles for lead time and inventory reduction however unique to the literature it also covers in depth the numerous managerial issues that accompany organizing work into cells in most implementations performance measurement compensation education and training employee involvement and change management are critically important these issues are often overlooked in the planning process yet they can occupy more of the implementation time than do the technical aspects of cells includes why do cells improve lead time quality and cost planning for cell implementation justifying the move to cells strategically and economically designing efficient manufacturing and office cells selecting and training cell employees

compensation system for cell employees performance and cost measurement planning and control of materials and capacity managing the change to cells problems in designing implementing and operating cells improving and adapting existing cells structured frameworks and checklists to help analysis and decision making numerous examples of cells in various industries

this book focuses on the ten essentials of facilities planning and design it covers topics such as strategic planning space standards architectural programming site selection master planning environmental planning capital planning workplace planning and design and space management examples will be drawn from the planning and design of airports and universities which are large organisations with extensive campuses and are asset heavy in terms of buildings by learning about the planning and design processes as it relates to facilities students and facility professionals will be able to align facilities planning and design with the organisation s strategic priorities manage design consultants by understanding the planning and design process manage the planning and design of spaces at different scales and manage the use of existing space effectively the book is designed such that its chapters may be read either sequentially or as individual standalone references or resources for specific aspects of facility planning management and design

now in its fourth edition your guide to successful facility design overcome design and planning problems using the fourth edition of facilities design dedicated to the proper design layout and location of facilities this definitive guide outlines the main design and operational problems that occur in manufacturing and service systems explains the significance of facility design and planning problems and describes how mathematical models can be used to help analyze and solve them combining theory with practice this revised work presents state of the art topics in materials handling warehousing and logistics along with real world examples that emphasize the importance of modeling and analysis when determining a solution to complex facility design problems what s new in the fourth edition the latest version introduces new material that includes handling equipment and systems and presents relevant case studies in each and every chapter it also provides access to layout iq software data files for many of the numerical examples that are contained throughout the book and powerpoint files for various chapters additionally the author describes tools commonly used for presenting layout designs presents traditional models for facility layout including the popular systematic layout planning slp model in detail provides a layout project involving the slp model covers group technology and cellular manufacturing at the elementary level includes a project and case study on machine grouping and layout considers next generation factory layouts discusses analytical queuing and queuing network models and more facilities design fourth edition explains the ins and outs of facility planning and design a reference for both

student and professional the book addresses facilities design and layout problems in manufacturing systems and covers layout logistics supply chain warehousing and materials handling please visit the author s website for ancillary materials sundere okstate edu downloadable software programs and data files

with increased globalization and offshore sourcing global supply chain management is becoming an important issue for many businesses as it involves a company s worldwide interests and suppliers rather than simply a local or national orientation the storage systems significantly affect the level of quality of products the customer s service level and the global logistic cost the mission of warehousing systems design control and optimization is to effectively ship products in the right place at the right time and in the right quantity i e in any configuration without any damages or alterations and minimizing costs warehousing in the global supply chain presents and discusses a set of models tools and real applications including a few case studies rarely presented with a sufficient detail by other literature to illustrate the main challenges in warehousing activities this includes all warehouse operations from receiving to shipping problems and issues e g storage allocation assignment layout vehicle routing for industrial and service systems as parts of global supply chains advanced and effective solving methods are also illustrated and the discussed case studies help the reader to quickly apply the proposed models and techniques algorithms warehousing in the global supply chain is useful to managers and practitioners of industry and service sectors for the determination and modeling of the critical issues concerning warehousing systems planning and design it is a valuable source of information for engineering students doctoral and post doctoral students and researchers of academic institutions who are searching for advanced modeling approaches and solving techniques to complex logistic decision making problems warehousing in the global supply chain presents and discusses a set of models tools and real applications including a few case studies rarely presented with a sufficient detail by other literature to illustrate the main challenges in warehousing activities this includes all warehouse operations from receiving to shipping problems and issues e g storage allocation assignment layout vehicle routing for industrial and service systems as parts of global supply chains advanced and effective solving methods are also illustrated and the discussed case studies help the reader to quickly apply the proposed models and techniques algorithms warehousing in the global supply chain is useful to managers and practitioners of industry and service sectors for the determination and modeling of the critical issues concerning warehousing systems planning and design it is a valuable source of information for engineering students doctoral and post doctoral students and researchers of academic institutions who are searching for advanced modeling approaches and solving techniques to complex logistic decision making problems

this updated expanded second edition includes new software methodologies and

algorithms providing students with a more comprehensive knowledge base in addition to facilitating and making the project component of the textbook more efficient and effective it further increases emphasis on manufacturing retaining its class tested pedagogy the book is concerned with the principles of facilities planning and their application to service business and product manufacturing operations equipping undergraduate students with the fundamentals of facilities planning design location and material handling especially as they apply to industrial manufacturing facilities the book is ideal for a range of university settings offering courses on facilities planning

featuring short case study applications this new edition explores the principles practices functions and challenges of manufacturing management it incorporates the latest developments in technology methodology and practice while retaining fundamentals of material purchasing inventory control and production schedules for production and manufacturing management professionals

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