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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

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 warehouse operations to selecting and evaluating facilities plans

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

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

facilities design strikes a successful balance between quantitative modeling of facilities design and practical discussion of real world facilities design material handling and storage and warehousing problems distinguishing this book is its excellent treatment of general purpose solution techniques including simulated annealing genetic algorithms and tabu search in chapter 7 its up to date presentation of group technology and cellular manufacturing systems and its in depth coverage of facility location in chapters 13 and 14 many chapters have detailed case studies for example chapters 11 and 12 describe material handling and automated storage and retrieval as rs systems in action with copious illustrations of modern systems at work a bound in disk includes fortran computer programs for two types of absmodels in chapter 5 as well as blocplan software for demonstrating layout problem solving concepts and problems

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

this book reviews materials handling and industrial logistics from the top down it translates the management objectives the strategy and policy level into the application of tools equipment and systems required to implement the programs which are necessary to the success of the business it ties these elements together defining the relationships between management strategy and engineering solutions examining decision criteria and exploring the choices of systems and equipment available to implement plans and policies in order to achieve higher industrial productivity commercial performance and efficient distribution it is essential to view the industrial economic system as an integrated whole p this book provides a combination of technical and management guidance relating to the application and use of materials handling hardware materials handling

systems and materials management principles equipment and systems required to implement the programs which are necessary to the success of the business

providing a comprehensive introduction to quantitative methods for facility layout and location this text is directed at senior and graduate level students in industrial engineering manufacturing systems management science and operations research curricula problems of facility layout and location are treated together because of the similarity between arranging the space in a single facility and arranging a systems of facilities an introduction to the field issues and literature is included along with the basic tools and methodologies the second edition revises over half of the text to provide material reflecting the most current developments chapters contain explanations of what layout and location problems are how to collect data and show how to model and solve such problems

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