

Quantitative Techniques In Management Nd Vohra

Essentials of Applied Quantitative Methods for Health Services Management shows students how to use statistics in all aspects of health care administration. Offering careful, step-by-step instructions for calculations using Microsoft Excel, this hands-on resource begins with basic foundational competencies in statistics, and then walks the reader through forecasting, designing and analyzing systems, and project analysis. The text stresses the application of concepts, models, and techniques and provides problems involving all of the methods. It is intended to build a student management and planning tools repertoire. Ideal for junior and seniors in baccalaureate level health administration programs as well as first year graduate students in non-MBA health administration programs, this book requires limited previous knowledge of statistics; its mathematical dimension is equal to basic high school algebra.

This book provides a strong foundation in Quantitative Methods for management students who come from different disciplines. It has been designed according to the latest syllabi of the Bharathiar University and Anna University. The book is prepared with utmost care and rules out the necessity of referring any other book as it is self-contained. This book will surely prove to be a good reference book for both the students and teachers.

Taking a non-threatening, non-theoretical approach to a subject students often find difficult, this book avoids rigorous mathematics and concentrates on applying quantitative ideas to the work situation.

This book focuses on the use of quantitative methods for both business and management, helping readers understand the

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most relevant quantitative methods for managerial decision-making. Pursuing a highly practical approach, the book reduces the theoretical information to a minimum, so as to give full prominence to the analysis of real business problems. Each chapter includes a brief theoretical explanation, followed by a real-life managerial case that needs to be solved, which is accompanied by a corresponding Microsoft Excel® dataset. The practical cases and exercises are solved using Excel, and for each problem, the authors provide an Excel file with the complete solution and corresponding calculations, which can be downloaded easily from the book's website. Further, in an appendix, readers can find solutions to the same problems, but using the R statistical language. The book represents a valuable reference guide for postgraduate, MBA and executive education students, as it offers a hands-on, practical approach to learning quantitative methods in a managerial context. It will also be of interest to managers looking for a practical and straightforward way to learn about quantitative methods and improve their decision-making processes.

An Autodesk Official Press guide to the powerful mechanical design software Autodesk Inventor has been used to design everything from cars and airplanes to appliances and furniture. This comprehensive guide to Inventor and Inventor LT features real-world workflows and work environments, and is packed with practical tutorials that focus on teaching Inventor tips, tricks, and techniques. Additionally, you can download datasets to jump in and practice on any exercise. This reference and tutorial explains key interface conventions, capabilities, tools, and techniques, including design concepts and application, parts design, assemblies and subassemblies, weldment design, and the use of Design Accelerators and Design Calculators. There's also detailed coverage of design tactics for large assemblies, effective model design for

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various industries, strategies for effective data and asset sharing, using 2D and 3D data from other CAD systems, and improving designs by incorporating engineering principles. Uses real-world sample projects so you can quickly grasp the interface, tools, and processes Features detailed documentation on everything from project set up to simple animations and documentation for exploded views, sheet metal flat patterns, plastic part design, and more Covers crucial productivity-boosting tools, iLogic, data exchange, the Frame Generator, Inventor Studio visualization tools, dynamic simulation and stress analysis features, and routed systems features Downloadable datasets let you jump into the step-by-step tutorials anywhere Mastering Autodesk Inventor and Autodesk Inventor LT is the essential, comprehensive training guide for this powerful software.

The new edition of Quantitative Methods for Business and Management offers a complete introductory course in Quantitative Methods, providing students with basic practical experience in quantitative approaches in modelling and analysis for business and management. The book features sections on foundation topics, models for business and management, and modelling and analyzing decisions. In particular, the new edition features greater coverage of statistics to reflect teaching in this area, with chapters on Elementary Statistics, Summary Statistics and Inferential Statistics. Other new areas of coverage in the second edition include Network Models and Non-linear Models. The book retains its popular style which offers students numerous examples accompanied by clear and straightforward explanations. Excel examples are also integrated throughout to help students to understand how this software tool is used by managers, and frequent questions and exercises enable students to test their understanding. A free CD contains Excel applications and solutions to the exercises in the textbook,

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and a full online learning centre completes an excellent learning package for business students.

This book is especially relevant to undergraduates, postgraduates and researchers studying quantitative techniques as part of business, management and finance. It is an interdisciplinary book that covers all major topics involved at the interface between business and management on the one hand and mathematics and statistics on the other. Managers and others in industry and commerce who wish to obtain a working knowledge of quantitative techniques will also find this book useful.

This text is especially relevant to students studying quantitative techniques as part of business, management and/or finance on undergraduate and professional courses, especially: ACCA; CIMA; CIPFA; ICA, IOB, ICAEW.

An accessible introduction to the essential quantitative methods for making valuable business decisions Quantitative methods-research techniques used to analyze quantitative data-enable professionals to organize and understand numbers and, in turn, to make good decisions. Quantitative Methods: An Introduction for Business Management presents the application of quantitative mathematical modeling to decision making in a business management context and emphasizes not only the role of data in drawing conclusions, but also the pitfalls of undiscerning reliance of software packages that implement standard statistical procedures. With hands-on applications and explanations that are

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accessible to readers at various levels, the book successfully outlines the necessary tools to make smart and successful business decisions.

Progressing from beginner to more advanced material at an easy-to-follow pace, the author utilizes motivating examples throughout to aid readers interested in decision making and also provides critical remarks, intuitive traps, and counterexamples when appropriate. The book begins with a discussion of motivations and foundations related to the topic, with introductory presentations of concepts from calculus to linear algebra. Next, the core ideas of quantitative methods are presented in chapters that explore introductory topics in probability, descriptive and inferential statistics, linear regression, and a discussion of time series that includes both classical topics and more challenging models. The author also discusses linear programming models and decision making under risk as well as less standard topics in the field such as game theory and Bayesian statistics. Finally, the book concludes with a focus on selected tools from multivariate statistics, including advanced regression models and data reduction methods such as principal component analysis, factor analysis, and cluster analysis. The book promotes the importance of an analytical approach, particularly when dealing with a complex system where multiple individuals are involved and have conflicting incentives. A related

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website features Microsoft Excel® workbooks and MATLAB® scripts to illustrate concepts as well as additional exercises with solutions. Quantitative Methods is an excellent book for courses on the topic at the graduate level. The book also serves as an authoritative reference and self-study guide for financial and business professionals, as well as readers looking to reinforce their analytical skills. It is specially designed to suit the latest syllabi of courses on Production/Operations Management offered by various universities to the undergraduate students of Mechanical Engineering, Production Engineering and Industrial Engineering as well as students of Master of Business Administration (MBA) specializing in Production and Operations Management stream. The book offers a balanced coverage of the fundamental principles of managing operations and the quantitative techniques used to support the functions of operations management. There are many worked-out examples in each chapter to enable students to comprehend the quantitative material of the book. The text is divided into two parts. Techniques of operations research such as linear programming, transportation assignment models, dynamic optimization and waiting line models are discussed in Part I. Some generic classes with functions for array and matrix manipulation, analysis of queuing models and evaluation of probability for some standard

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distributions have been defined and used throughout for writing programs for diverse managerial applications. Part II is devoted to a detailed discussion of management functions such as Product Design and Development, Forecasting, Capacity Analysis, Plant Layout, Assembly Line Balancing, Inventory Control, Materials Requirement Planning, Production Scheduling, Quality Control, Total Quality Management, Just in Time (JIT), Supply Chain Management, Maintenance Management and Six Sigma. Small computer programs have been given wherever required for solving practical problems. The functions developed in generic base classes have been used to take advantage of source code reusability offered by Object Oriented Programming (C++).

This text is especially relevant to students studying quantitative techniques as part of business, management and/or finance on undergraduate and professional courses, especially: ACCA; CIMA; CIPFA; ICA, IOB, ICAEW. This introductory interdisciplinary textbook covers all the major topics involved at the interface between business and management on the one hand and mathematics and statistics on the other. Topics dealt with include logistics, finance, production and operations management, and economics. This text is especially relevant to students studying quantitative techniques as part of business, management and/or finance on

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undergraduate and professional courses, especially: ACCA; CIMA; CIPFA; ICA, IOB, ICAEW. This introductory interdisciplinary textbook covers all the major topics involved at the interface between business and management on the one hand and mathematics and statistics on the other. Topics dealt with include logistics, finance, production and operations management, and economics. Quantitative Methods for Business has been thoroughly revised and updated for this 5th edition, and continues to provide a simple and practical introduction to an area that students can find difficult. The book takes a non-threatening approach to the subject, avoiding excessive mathematics and abstract theory. It shows how to apply quantitative ideas to the real problems faced by managers. The book includes numerous exercises and examples that help students understand the relevance of quantitative ideas to business. Assuming no previous knowledge, the text provides complete coverage for a first course in quantitative methods. This book provides the most comprehensive treatment of the theoretical concepts and modelling techniques of quantitative risk management. Whether you are a financial risk analyst, actuary, regulator or student of quantitative finance, Quantitative Risk Management gives you the practical tools you need to solve real-world problems. Describing the latest advances in the field,

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Quantitative Risk Management covers the methods for market, credit and operational risk modelling. It places standard industry approaches on a more formal footing and explores key concepts such as loss distributions, risk measures and risk aggregation and allocation principles. The book's methodology draws on diverse quantitative disciplines, from mathematical finance and statistics to econometrics and actuarial mathematics. A primary theme throughout is the need to satisfactorily address extreme outcomes and the dependence of key risk drivers. Proven in the classroom, the book also covers advanced topics like credit derivatives. Fully revised and expanded to reflect developments in the field since the financial crisis Features shorter chapters to facilitate teaching and learning Provides enhanced coverage of Solvency II and insurance risk management and extended treatment of credit risk, including counterparty credit risk and CDO pricing Includes a new chapter on market risk and new material on risk measures and risk aggregation

Quantitative Methods for Business and Management Students takes you on a journey though the techniques required to succeed in business and management. With a user-friendly and accessible writing style, John Buglear presents these techniques simply and provides numerous examples to enable you to relate the theory to real-life

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applications.

This book has been developed with a focus on the need to demystify the subject and make it easy for students to grasp the principles and details involved, and make it easily understandable to beginners exposed to the subject for the first time. An attempt has been made to explain things in a logical progression, in the simplest possible way so that neophytes may quickly grasp the concepts and methodology. A novel approach in the book is the illustrative use of computers with TORA package, as a problem-solving tool. In actual practice, situations arise with large and complex problems that are difficult to solve. At such times, using computers to solve problems gives fast and more accurate results. The chapters are arranged so as to progressively explain the workings of various models in actual practice through step-by-step procedures that so simplify and solve them, that even students from a non-mathematics academic background will grasp them quickly. Linear programming, the most powerful tool for managerial decision-making is covered elaborately, including thorough discussion of various LP methods and LP solutions, Duality in LP problems, sensitivity analysis, etc. Models in the book also use Linear Programming to reach solutions including those relating to transportation and transshipment, assignment, and Game Theory&illustrated with screen-shots of a computer

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with a TORA package. Readers whether students, business executives, managers, researchers and academicians will find that the insights and knowledge obtained from the book will stand them in good stead in both academic as well as occupational pursuits.

Thoroughly revised and updated for Excel®, this second edition of Quantitative Methods in Health Care Management offers a comprehensive introduction to quantitative methods and techniques for the student or new administrator. Its broad range of practical methods and analysis spans operational, tactical, and strategic decisions. Users will find techniques for forecasting, decision-making, facility location, facility layout, reengineering, staffing, scheduling, productivity, resource allocation, supply chain and inventory management, quality control, project management, queuing models for capacity, and simulation. The book's step-by-step approach, use of Excel, and downloadable Excel templates make the text highly practical. Praise for the Second Edition "The second edition of Dr. Ozcan's textbook is comprehensive and well-written with useful illustrative examples that give students and health care professionals a perfect toolkit for quantitative decision making in health care on the road for the twenty-first century. The text helps to explain the complex health care management problems and offer support for decision makers in this field."

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—Marion Rauner, associate professor, School of Business, Economics, and Statistics, University of Vienna. "Quantitative Methods in Health Care Administration, Second Edition covers a broad set of necessary and important topics. It is a valuable text that is easy to teach and learn from." —David Belson, professor, Department of Industrial Engineering, Viterbi School of Engineering, University of Southern California.

KEY BENEFIT: Easy to understand—even for learners with limited math backgrounds, this book uses a modeling approach to provide thorough coverage of the basic techniques in quantitative methods and focuses on the managerial applications of these techniques. An interesting and reader friendly writing style makes for a clear presentation, complete with all the necessary assumptions and mathematical details. **KEY TOPICS:** Chapter topics include probability concepts and applications, decision models and decision trees, regression models, forecasting, inventory control models, linear programming modeling applications and computer analyses, network models, project management, simulation modeling, and more. **MARKET:** For an introduction to quantitative analysis, quantitative management, operations research, or management science—especially for those individuals preparing for work in agricultural economics and health care fields. **About the Book:** The revised second edition

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thoroughly explains the basic methods and techniques involved in mathematical analysis of economic phenomena. Statistical methods have been emphasized. Numerous new concepts, solved examples and illustrative practice problems have been included throughout the book. In addition, few new chapters have been added to enrich the quality of text as well. About the Author: Dr. R. Veerachamy was formerly Professor and Chairman in the Department of Economics, Bangalore University, Bangalore. He has put in 37 years of teaching on Quantitative Techniques for both Economics and Management students. His book "Quantitative Methods for Economists" is a very popular text among student community all over the country. Since 1973 he is handling the paper "Quantitative Methods for Economists" for the postgraduate students in Bangalore University. He has obtained his MSc. degree in Mathematical Economics from Madurai Kamaraj University and also has MA Economics degree as well from the same University to his credit. He is a First Rank Gold Medalist in Econometrics. He received his Ph.D. in the area of International Economics from Bangalore University. He has contributed research papers/articles in several journals of repute. He has vast experience in curriculum development for both MA and MBA courses. Currently he is working as a Professor, Department of Management Studies, East Point

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College of Higher Education, Bangalore.

Readers don't need to be a mathematician to understand and maximize the power of quantitative methods! Written for the future or current business professional, **QUANTITATIVE METHODS FOR BUSINESS, 12E**, International Edition by a powerhouse, award-winning author team makes it easy for readers to understand how to most effectively use quantitative methods to make intelligent successful decisions. The book's hallmark problem-scenario approach guides readers through the application of mathematical concepts and techniques, while memorable examples illustrate how and when to use the methods. Readers discover everything needed for success in working with quantitative methods, from a strong managerial orientation to instant online access to Excel worksheets for text examples; The Management Scientist v6.0 and TreePlan; Crystal Ball; Premium Solver for Excel, and LINGO.

With this book, managers can learn sophisticated techniques for analyzing and interpreting business results. This step-by-step, practical guide brings together all the quantitative methods business professionals need. Coverage includes: statistics for market research and other applications; probability and decision theory; financial mathematics, including NPV/APR and investment appraisal; index numbers; forecasting; inventory control methods including

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MRP and JIT; linear programming; simulation; project management, and more. For all business and finance professionals and students interested in quantitative methods.

Building on the strength of the first edition, *Quantitative Methods for Business and Economics* provides a simple introduction to the mathematical and statistical techniques needed in business. This book is accessible and easy to use, with the emphasis clearly on how to apply quantitative techniques to business situations. It includes numerous real world applications and many opportunities for student interaction. It is clearly focused on business, management and economics students taking a single module in *Quantitative Methods*.

Quantitative Methods for the Project Manager is for professional project managers who need to know how to make everyday use of numerical analysis. It combines theory and practices and is designed to be easily applied.

This text is a complete course for undergraduate business studies students. It is comprehensive and provides all that any student new to quantitative methods needs, whatever their abilities, from A-Z.

Written with the non-mathematician in mind, *QUANTITATIVE METHODS FOR BUSINESS, 13E* by award-winning authors Anderson, Sweeney, Williams, Camm, Cochran, Fry, and Ohlmann equips your students with a strong conceptual understanding of the

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critical role that quantitative methods play in today's decision-making process. This applications-oriented text clearly introduces current quantitative methods, how they work, and how savvy decision makers can most effectively apply and interpret data. A strong managerial orientation motivates learning by weaving relevant, real-world examples throughout. The authors' hallmark Problem-Scenario Approach helps readers understand and apply mathematical concepts and techniques. The 13th Edition includes a more holistic description of how variable activity times affect the probability of a project meeting a deadline. In addition, numerous all-new Q.M. in Action vignettes, homework problems, and end-of-chapter cases are included. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Appealing both to students on introductory courses for quantitative methods and MBA and post-experience students, this respected text provides an accessible, practical introduction to an area that students often find difficult. Concentrating on helping students to understand the relevance of quantitative methods of analysis to managers' decision-making, it focuses on the development of appropriate skills and understanding of how the techniques fit into the wider management process.

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Businesses are built on numbers; in any organization the ability to use and interpret quantitative methods is vital to

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maintaining a competitive edge. Quantitative Methods for Business, Management and Finance is a comprehensive, easy-to-follow guide to the subject, painlessly leading you from fundamental principles to more advanced applications. It is an essential text for undergraduate students of business, management and finance, as well as for those on MBA and postgraduate courses. Each topic is explained in a clear, friendly style, and accompanied by examples, exercises and activities, making the text ideal for self-tuition. This highly successful learning-by-doing approach, coupled with the book's clear structure, make the understanding of essential mathematical skills achievable - and even enjoyable! Key benefits:

- From basics to business modelling: maths revision through to probability, statistics and more, all in one text
- Suitable for all maths backgrounds – an optional introductory part teaches mathematical essentials from scratch
- Refreshingly non-technical writing style – user-friendly and engaging, avoiding excessive theory
- Practical guidance on using IBM SPSS and Microsoft Excel
- Brand new 'Moving on...' feature with integrated web and book activities for Business Modelling chapters, relating theory to the real world

The companion website offers lecturers a testbank, PowerPoint slides, and assessment solutions. Students will find multiple choice practice questions, data sets, and extra exercises. LOUISE SWIFT taught quantitative methods to students of business, management and finance for over ten years at the University of East Anglia, UK, where she now works as a statistician. SALLY PIFF is Lecturer in Quantitative Methods at

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Norwich Business School, University of East Anglia, UK.

A concise, accessible, comprehensive introduction to quantitative techniques emphasizing business relevance and discussing the challenges of problem-solving in the real world. Written for a diverse range of abilities, coverage includes chapters on revision mathematics, investment appraisal, decision-making and simulation. Excel and SPSS are integrated throughout.

This Book Is Designed To Serve As A Text For Management, Economics, Accountancy (Chartered And Cost Accountancy), And Commerce Students. The Book Covers Concepts, Illustrations And Problems In Statistics And Operations Research. Part I Deals With Statistical Techniques For Decision Making. Part Ii Studies Various Operations Research Techniques For Managerial Decisions. The Book Contains Illustrations And Problems, Drawn Extensively From Various Functional Areas Of Management, Viz., Production, Finance, Marketing And Personnel, Which Are Designed To Understand Real Life Decision Making Situations. In Order To Make The Book Self-Contained, All Relevant Mathematical Concepts And Their Applications Have Been Included. To Enhance The Understanding Of The Subject Matter By The Students Belonging To Different Disciplines, The Approach Adopted In This Book, Both In Statistics And Operations Research, Is Conceptual Rather Than Mathematical. Hence Complicated Mathematical Proofs Have Been

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Avoided. This Book Would Be An Ideal Reference To Executives, Computer Professionals, Industrial Engineers, Economic Planners And Social Scientists. The Other Books By The Same Authors Are: Operations Research For Management And Business Statistics.

The goal of this book is to provide the readers with examples of application of a wide set of quantitative methods for Quality Management, making it a useful resource for both students and practitioners who are willing to understand the basics of statistical thinking applied to industrial domains (both Manufacturing and Service operations). Students will find the ideal support and guidance for getting confident with the subject, while practitioners will be provided with theoretical and practical insights to deeply understand the ground on which most of commonly used tools are built on. The structure of the book is the logical structure of an exercise book applied to a scientific topic such as statistics and quantitative methods: starting from the easiest-to-understand subject (descriptive statistic), the reader will experience an increasing level of complexity in the tools adopted and in the numerical examples, as the knowledge of the topic should be growing through the chapters. Every chapters opens with a short review of the basic theories to approach the exercises then presented: these theoretical introductions are not to be regarded as a substitute

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of statistical text-books; rather, as a handy vademecum of the most important algorithms and formulae to be known to correctly approach the problem solving. Some of the exercises presented in the various chapters are not solved: pedagogically, we decided to illustrate the methods and problem-solving approach in the solved exercises, while leaving to the reader the task of applying the same approach and method to the ones without solution. This second, revised and expanded edition of the book comes with an updated and larger set of exercises, endeavoring to turn an academic textbook into a pragmatical manual, useful also in real business contexts. We would like to thank all the students and readers who gave us feed-backs on the first edition (2008) in order to improve it before printing the new edition (2012). Should you have any comment or feedback, it would be greatly appreciated.

Quantitative Methods in Supply Chain Management presents some of the most important methods and tools available for modeling and solving problems arising in the context of supply chain management. In the context of this book, “solving problems” usually means designing efficient algorithms for obtaining high-quality solutions. The first chapter is an extensive optimization review covering continuous unconstrained and constrained linear and nonlinear optimization algorithms, as well as

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dynamic programming and discrete optimization exact methods and heuristics. The second chapter presents time-series forecasting methods together with prediction market techniques for demand forecasting of new products and services. The third chapter details models and algorithms for planning and scheduling with an emphasis on production planning and personnel scheduling. The fourth chapter presents deterministic and stochastic models for inventory control with a detailed analysis on periodic review systems and algorithmic development for optimal control of such systems. The fifth chapter discusses models and algorithms for location/allocation problems arising in supply chain management, and transportation problems arising in distribution management in particular, such as the vehicle routing problem and others. The sixth and final chapter presents a short list of new trends in supply chain management with a discussion of the related challenges that each new trend might bring along in the immediate to near future. Overall, Quantitative Methods in Supply Chain Management may be of particular interest to students and researchers in the fields of supply chain management, operations management, operations research, industrial engineering, and computer science.

This paper presents a historical review of selected material covering the development of quantitative

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methods and tools involved in management decision-making. Although the science of the computer has evolved recently, the principles behind them can be traced over many years in the past. Men such as Taylor and Fayol not only developed quantitative techniques but also wrote most of the material which describes the results of their experiments. They believed that sciences such as engineering should have some basis in management and did much to encourage the teaching of management in the engineering schools. In some areas managers did not develop the tools but were instrumental in the application of the techniques. This paper traces these tools from the development of the abacus around the year 1100 B.C., followed by an enumeration and explanation of various operations research tools, methods and models. (Author). This revision of QUANTITATIVE METHODS FOR BUSINESS provides students with a conceptual understanding of the role that quantitative methods play in the decision-making process. This text describes the many quantitative methods that have been developed over the years, explains how they work, and shows how the decision-maker can apply and interpret data. Written with the non-mathematician in mind, this text is applications-oriented. Its Problem-Scenario Approach motivates and helps students understand and apply mathematical concepts and techniques. In addition,

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the managerial orientation motivates students by using examples that illustrate situations in which quantitative methods are useful in decision making. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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