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Operations Research - N.V.S Raju 2019-09-03
This book 'Operations Research: Theory and Practice' provides various concepts, theoretical and practical knowledge and develops the techno-managerial skills in the field of engineering. All the angles and approaches of operations applicable to both industrial and institutional needs are presented. It also provides an insight into the historical development of Operations Research. Examples and problems from usual situations that occur in industries are presented wherever necessary. Please note: Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.
An Analytical Approach to Physical Distribution Management - Roger Willis 1977

Introduction to Linear Programming Processes - Giuseppe Maria Ferrero Di Roccaferrera 1967

Production and Operations Management - Norman Gaither 1984

Search Methodologies - Edmund K. Burke 2006-03-20
This book is a tutorial survey of the methodologies that are at the confluence of several fields: Computer Science, Mathematics and Operations Research. It provides a carefully structured and integrated treatment of the major technologies in optimization and search methodology. The chapter authors are drawn from across Computer Science and Operations Research and include some of the world's leading authorities in their field. It can be used as a textbook or a reference book to learn and apply these methodologies to a wide range of today's problems.
Principles of Operations Management - Jay Heizer 2008

Operations Research Methods And Practice - C. K. Mustafi 1996
Written With The Dual Purpose Of In Depth Study Of Operations Research And Creating An Awareness About Its Applicability The Third Edition Of The Book Covers Diverse Topics Such As Linear Programming, Network Planning, Inventory Control, Waiting Line Problems, Simulation, Problems Of Replacement, Reliability And Elements Of Non-Linear Programming With Appropriate Rigour. It Also Includes Real Life Applications Of Operations Manufacturing To Make The Readers Familiar With Operations Research Methodology. The Book Also Contains Numerous Examples And Exercises With Answers To Help The Students Develop Problem Solving Skill. The New Edition Also Presents Computer Programmes To Be Used On A Personal Computer For The Benefit Of The Students With A Computer Orientation.
Optimization Techniques and their Applications to Mine Systems - Amit Kumar Gorai 2022-09-30
This book describes the fundamental and theoretical concepts of optimization algorithms in a systematic manner, along with their potential applications and implementation strategies in mining engineering. It explains basics of systems engineering, linear programming, and integer linear programming, transportation and assignment algorithms, network analysis, dynamic programming, queuing theory and their applications to mine systems. Reliability analysis of mine systems, inventory management in mines, and applications of non-linear optimization in mines are discussed as well. All the optimization algorithms are explained with suitable examples and numerical problems in each of the chapters. Features include: • Integrates operations research, reliability, and novel computerized technologies in single volume, with a

modern vision of continuous improvement of mining systems. • Systematically reviews optimization methods and algorithms applied to mining systems including reliability analysis. • Gives out software-based solutions such as MATLAB®, AMPL, LINDO for the optimization problems. • All discussed algorithms are supported by examples in each chapter. • Includes case studies for performance improvement of the mine systems. This book is aimed primarily at professionals, graduate students, and researchers in mining engineering.
Quantitative Methods Software - William E. Pinney 2004-01-15
QMS is a comprehensive set of quantitative decision making tools for academic, business, and scientific use. It solves models for most aspects of quantitative methods modeling and decision analysis, including linear programming, mixed-integer linear programming, assignment and transportation models, various network and forecasting models, inventory and production models and dynamic programming models. QMS also contains modules to solve production planning, decision theory, queuing systems, finite Markov chains, learning curves and standard simulation models. In short, QMS is the perfect supplement for students and practitioners in the Operations Research and Management Science disciplines.
Fuzzy Mathematical Analysis and Advances in Computational Mathematics - S. R. Kannan 2022-04-06
The edited volume includes papers in the fields of fuzzy mathematical analysis and advances in computational mathematics. The fields of fuzzy mathematical analysis and advances in computational mathematics can provide valuable solutions to complex problems. They have been applied in multiple areas such as high dimensional data analysis, medical diagnosis, computer vision, hand-written character recognition, pattern recognition, machine intelligence, weather forecasting, network optimization, VLSI design, etc. The volume covers ongoing research in fuzzy and computational mathematical analysis and brings forward its recent applications to important real-world problems in various fields. The book includes selected high-quality papers from the International Conference on Fuzzy Mathematical Analysis and Advances in Computational Mathematics (FMAACM 2020).
Objective Agribusiness Management 3rd Ed - Ritambhara Singh 2019-02-19
The book OBJECTIVE AGRIBUSINESS MANAGEMENT 3rd Edition consists more than four thousand five hundred objective questions and the unique characteristics of all these objectives are that they have covered all most all the subjects of ICAR syllabus for agribusiness management. This is a handbook to refresh the memory at instant before the examination and the basic reliability and accuracy of questions and their answers are very pertinent from the examination point of view. We always come across different objective books like Objective Agriculture, Objective Agricultural Economics etc in the market and this book was the first one that was introduced in this segment four years before.This year it comes in its new version and look for its stakeholders. This book consists of thirteen core chapters like Principle of Management, Organisational Behaviour, Human Resource Management Strategic Management, Accounting Control and Financial Management, Agricultural Finance, Marketing Management, Agricultural and Rural Marketing, Agricultural supply Chain Management, Production and Operations Management, Operations Research, Managerial Economics and Farm Business Management, Agribusiness Policy, Project Management and Entrepreneurship Development, Research Methodology and General study in Agribusiness Management. Besides that five practice tests are also attached in this book for its readers.

This book will also be helpful to the Management students who appear for UGC NET examination as the pattern of this examination is now objective based unlike before. This book will be one window solutions for the readers who are going to appear ICAR NET, ICAR ARS, and UGC NET Examination particularly in India.

Operations Research for Management - G. V. Shenoy 1986

Operations Research - P Mariappan 1973
This book elucidates the basic concepts and applications of operations research. Written in a lucid, well-structured and easy-to-understand language, the key topics are explained with adequate depth and self-explanatory flow charts. A wide range of solved examples and end-of-chapter exercises makes this book an ideal companion for active learners.

Operations Research - Col. D. S. Cheema 2005

Distribution and Supply Logistics - Martin Straka 2019-10-21
What is logistics? What is distribution and supply? What is supply chain management? Which elements create distribution and supply space? Which aspects affect storage design? Which information technologies are suitable for distribution and supply systems? What costs affect distribution and supply systems? These are just some of the questions explored in this book. In addition to providing theoretical analysis of the problems of distribution and supply, it practically demonstrates the many ways of using of heuristics to solve specific tasks. It brings together eight case studies to investigate facets such as designing distribution systems, location problem solving, distribution and collection of goods solutions, and inventory management solutions in particular companies. As such, it will appeal to students in the field of logistics, as well as logistics managers, designers and planners.

Decision Making Through Operations Research - Robert J. Thierauf 1975
A mishap at the train station exchanges a lady traveler's Pekingese puppy for a Great Dane.

Operation Research - Dr. Vandana Bagla and Mr. Naveen Solanki 2017-08-23
⬜ABOUT THE BOOK: This book titled "Operations Research: Introduction and Applications"provides undergraduate and graduate students with basic concepts, techniques and applications of linear programming and related topics. With this first edition. We have tried to meet the expectations of the students by describing methodologies used in operations research effectively from the introductory level. With a strong emphasis on conceptual knowledge, the book provides working methodologies along with illustrations and examples. Suitable for individual and group learning, it bestows numerous worked out examples and questions inquired in the preceding years. Practicing engineers and managers will find it pragmatic in industry related application problems. Level of the book has been kept moderately elementary and plain salted to provide its' readers with lucidity and perceptibility. It is hoped that this book will be advantageous to the tutees and prove to be serviceable. ⬜OUTSTANDING FEATURES: It is hoped that this book will be advantageous to the tutees and prove to be serviceable Provides undergraduate and graduate students with basic concepts, techniques and applications of linear programming and related topics ⬜RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations ⬜ABOUT THE AUTHOR: Dr. Vandana Bagla (Msc (Maths), M.Phil.(Maths), MBA (HR), Ph. D. (O.R.)) Assistant Professor, Department of Applied Sciences Maharaja Agrasen Intitute Of Technology, Rohini Sec-22, Delhi & Naveen Solanki (B.Tech(MAE), M.E. (Thermal Engr.), Ph.D.(P)) Assistant Professor, Department of Mechanical and Automation Maharaja Agrasen Institute of Technology, Rohini Sec-22, Delhi ⬜BOOK DETAILS: ISBN: 978-81-89401-56-6 Pages: 339 + 12 Edition: 1st,Year-2017 Size(cms): L-23.5 B-15.7 H-1.2: ⬜PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail Office : 1705-A Nai Sarak Delhi-110006 011 23265506 Website: www.standardbookhouse.com A venture of Rajsons Group of Companies
Fuzzy Systems: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2017-02-22
There are a myriad of mathematical problems that cannot be solved using traditional methods. The

development of fuzzy expert systems has provided new opportunities for problem-solving amidst uncertainties. Fuzzy Systems: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source on the latest scholarly research and developments in fuzzy rule-based methods and examines both theoretical foundations and real-world utilization of these logic sets. Featuring a range of extensive coverage across innovative topics, such as fuzzy logic, rule-based systems, and fuzzy analysis, this is an essential publication for scientists, doctors, engineers, physicians, and researchers interested in emerging perspectives and uses of fuzzy systems in various sectors.
Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science - Sheng-Lung Peng 2022-06-28
The conference proceeding of ICMMCS 2021 presents most recent scientific and technological advances in the fields of engineering mathematics and computational science to strengthen the links in the scientific community. It is a collection of high-quality, peer-reviewed research papers presented at the Second International Conference on Mathematical Modeling and Computational Science (ICMMCS 2021), held online during October 29–30, 2021. The topics covered in the book are mathematical logic and foundations, numerical analysis, neural networks, fuzzy set theory, coding theory, higher algebra, number theory, graph theory and combinatory, computation in complex networks, calculus, differential educations and integration, application of soft computing, knowledge engineering, machine learning, artificial intelligence, big data and data analytics, high-performance computing, network and device security, Internet of Things (IoT).

OPERATIONS RESEARCH : PRINCIPLES AND APPLICATIONS - SRINIVASAN, G. 2017-06-01
This text, now in the Third Edition, aims to provide students with a clear, well-structured and comprehensive treatment of the theory and applications of operations research. The methodology used is to first introduce the students to the fundamental concepts through numerical illustrations and then explain the underlying theory, wherever required. Inclusion of case studies in the existing chapters makes learning easier and more effective. The book introduces the readers to various models of Operations Research (OR), such as transportation model, assignment model, inventory models, queueing theory and integer programming models. Various techniques to solve OR problems' faced by managers are also discussed. Separate chapters are devoted to Linear Programming, Dynamic Programming and Quadratic Programming which greatly help in the decision-making process. The text facilitates easy comprehension of topics by the students due to inclusion of: • Examples and situations from the Indian context. • Numerous exercise problems arranged in a graded manner. • A large number of illustrative examples. The text is primarily intended for the postgraduate students of management, computer applications, commerce, mathematics and statistics. Besides, the undergraduate students of mechanical engineering and industrial engineering will find this book extremely useful. In addition, this text can also be used as a reference by OR analysts and operations managers. NEW TO THE THIRD EDITION • Includes two new chapters: – Chapter 14: Project Management—PERT and CPM – Chapter 15: Miscellaneous Topics (Game Theory, Sequencing and Scheduling, Simulation, and Replacement Models) • Incorporates more examples in the existing chapters to illustrate new models, algorithms and concepts • Provides short questions and additional numerical problems for practice in each chapter
Physical Distribution Management - Roger Willis 1977

Intelligent Computing - Kohei Arai
This book is a comprehensive collection of chapters focusing on the core areas of computing and their further applications in the real world. Each chapter is a paper presented at the Computing Conference 2021 held on 15-16 July 2021. Computing 2021 attracted a total of 638 submissions which underwent a double-blind peer review process. Of those 638 submissions, 235 submissions have been selected to be included in this book. The goal of this conference is to give a platform to researchers with fundamental contributions and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. We hope that readers find this volume interesting and valuable as it provides the state-of-the-art intelligent methods and techniques for solving real-world problems. We also expect that the conference and its publications is a trigger for further related research and technology improvements in

this important subject. .

EXTENDED TRANSPORTATION PROBLEM - Dr. Mohd. B. Pathan

Objective Agribusiness Management, 2nd Ed. - S.R. Panigrahy 2017-03-01

Operations Research (linear Programming) - P Rama Murthy 2005
The Subject Operations Research Is A Branch Of Mathematics. Many Authors Have Written Books On Operations Research. Most Of Them Have Mathematical Approach Rather Than Decision-Making Approach. Actually The Subject Deals With Applied Decision Theory, So I Have Dealt With The Subject With Decision-Theory Approach. The Book Has Fifteen Chapters.The First Five Chapters Deal With Linear Programming Problems, Such As Resource Allocation Problem, Transportation Problem And Assignment Problem Both Maximization And Minimization Versions. In The First Chapter, The Historical Background Of Operations Research (O.R.) And Definition And Objective Of The Subject Matter Along With Model Building Is Discussed To Help The Learners To Have Basic Knowledge Of O.R. Typical Problems Of Mathematical Orientation And Decision Making Orientation Have Been Solved. In Transportation Model And In Assignment Model, Problems Useful To Production And Operations Management Have Been Solved To Make The Students To Know The Application Part Of The Subject.The Sixth Chapter Deals With Sequencing Model, Where The Importance And Application Of The Models Is Dealt In Detail. The Problem Of Replacement Is Discussed In Chapter-7. Inventory Model With Certain Topics Like Abc, Ved, Fsn, P-System And Q-System Is Discussed To Make The Students Aware Of The Importance Of Inventory Model.Chapter-9 Deals With Waiting Line Model And Its Application With Certain Useful Problems And Their Solutions. Game Theory Or Competitive Theory Is Discussed In Chapter-10 With Certain Problems, Which Have Their Application In Real World Situation.Dynamic Programming Is Dealt In Chapter-11. The Problems Worked Out Have Practical Significance. Chapter-12 Deals With Decision Theory Where The Usefulness Of Decision Tree Is Discussed. Non-Linear Programming Is Briefly Discussed In Chapter-14 With Certain Useful Problems. In Chapter -15, The Two Network Techniques I.E. Pert And Cpm Have Been Discussed With Typical Worked Out Examples.At The End Of The Book, Objective Type Questions, Which Are Helpful For Competitive Examinations Are Given To Help The Students To Prepare For Such Examinations.
Operations Research; Planning, Operating, and Information Systems - Nicolai Siemens 1973

Operations Management: Text - Jay Heizer 2004

Introduction to Management Science - Thomas M. Cook 1981

Operation Research - Anup Goel 2021-01-01
Operations research is the fast developing branch of science which deals with the most of the engineering activities. It consist of many models which are used to obtain the optimum solution for different activities. Operations research is a procedure which is executed iteratively for comparing various solutions till the optimum or satisfactory solution is obtained. An important aspect of the optimal design process is the formulation of the problem in a mathematical format which is acceptable to an algorithm and thus find out the optimal solution. These techniques are extensively used in those engineering design problem where the emphasis is on maximising or minimising a certain goal. This book is the introduction to the different techniques in operations research. The subject does not require a high level of mathematical knowledge. Each chapter of the book have examples from variety of fields. Our hope is that this book, through its careful explanations of concepts, practical examples and techniques bridges the gap between knowledge and proper application of that knowledge.
Operations Research Using Excel - Vikas Singla 2021-09-16
The field of operations research provides a scientific approach to managerial decision making. In a contemporary, hypercompetitive ever-changing business world, a manager needs quantitative and factual ways of solving problems related to optimal allocation of resources, profit/loss, maximization/minimization etc. In this endeavor, the subject of doing research on how to manage and make operations efficient is

termed as Operations Research. The reference text provides conceptual and analytical knowledge for various operations research techniques. Readers, especially students of this subject, are skeptic in dealing with the subject because of its emphasis on mathematics. However, this book has tried to remove such doubts by focusing on the application part of OR techniques with minimal usage of mathematics. The attempt was to make students comfortable with some complicated topics of the subject. It covers important concepts including sensitivity analysis, duality theory, transportation solution method, Hungarian algorithm, program evaluation and review technique and periodic review system. Aimed at senior undergraduate and graduate students in the fields of mechanical engineering, civil engineering, industrial engineering and production engineering, this book: • Discusses extensive use of Microsoft Excel spreadsheets and formulas in solving operations research problems • Provides case studies and unsolved exercises at the end of each chapter • Covers industrial applications of various operations research techniques in a comprehensive manner • Discusses creating spreadsheets and using different Excel formulas in an easy-to-understand manner • Covers problem-solving procedures for techniques including linear programming, transportation model and game theory
Production and Operations Management - K.C. Arora 2004

Development of Refined Mathematical Programmilng Methods for Industrial Engineering Problems - Robert W. Metzger 1957

Optimization Using Linear Programming - A. J. Metei, PhD 2019-03-21
Designed for engineers, mathematicians, computer scientists, financial analysts, and anyone interested in using numerical linear algebra, matrix theory, and game theory concepts to maximize efficiency in solving applied problems. The book emphasizes the solution of various types of linear programming problems by using different types of software, but includes the necessary definitions and theorems to master theoretical aspects of the topics presented. Features: Emphasizes the solution of various types of linear programming problems by using different kinds of software, e.g., MS-Excel, solutions of LPPs by Mathematica, MATLAB, WinQSB, and LINDO Provides definitions, theorems, and procedures for solving problems and all cases related to various linear programming topics Includes numerous application examples and exercises, e.g., transportation, assignment, and maximization Presents numerous topics that can be used to solve problems involving systems of linear equations, matrices, vectors, game theory, simplex method, and more.
E-Enabled Operations Management - Jean-Pierre Briffaut 2015-08-03
Although the theory of operations management has been presented in many textbooks published in the last two decades, the subject of e-enabled operations management is rather short of easily accessible literature. The approach to operations management described in this book is unusual with respect to what is found in standard textbooks. Information and Communication Technologies (ICT) impact the ways firms are organised and managed, and as a consequence change the practical means used to conduct business operations. The features of this book are threefold. System approach to business modelling: Business activities, controlling functions and associated information systems are described within a coherent analytical system framework allowing a clear understanding of the various current control and costing concepts. Operations costing is not usually included in textbooks as part of operations management, but it should be. Cost targeting has become an integral part of good practice of business management. Validity of models: Apparently simple models are analyzed in depth. Students must be fully aware of the assumptions made when models are formulated and of their conditions of validity. Applying a model implies automatically that assumptions of a sort are taken for granted. Logistics, procurement and quality management: These three business functions are critical key success factors for managing e-enabled supply chains from suppliers to customers. That is why their main tools are introduced in this document.
Linear Programming - G. V. Shenoy 2007
Due To The Availability Of Computer Packages, The Use Of Linear Programming Technique By The Managers Has Become Universal. This Text Has Been Written Primarily For Management Students And Executives Who Have No Previous Background Of Linear Programming. The Text Is Oriented Towards Introducing Important Ideas In Linear Programming Technique At A Fundamental Level And Help The

Students In Understanding Its Applications To A Wide Variety Of Managerial Problems. In Order To Strengthen The Understanding, Each Concept Has Been Illustrated With Examples. The Book Has Been Written In A Simple And Lucid Language And Has Avoided Mathematical Derivations So As To Make It Accessible To Every One.The Text Can Be Used In Its Entirely In A Fifteen Session Course At Programmes In Management, Commerce, Economics, Engineering Or Accountancy. The Text Can Be Used In One/Two Week Management/Executive Development Programmes To Be Supplemented With Some Cases. Practicing Managers And Executives, Computer Professionals, Industrial Engineers, Chartered And Cost Accountants And Economic Planners Would Also Find This Text Useful.

Operations Research - P.K. Mohanty 2017-07-01
The book covers clear and crisp pedagogy in the field of decision making process, which pervades the activities of every business manager. Modest attempt has been made to discuss some of the commonly used quantitative techniques in a wide spectrum of decision-making situations. It presents the application of various techniques through a large number of examples and review illustrations. A number of problems from various examinations have also been incorporated. Simplicity in explaining complex phenomena and lucidity in style are the twin objectives of the authors' in organizing the chapters of the book so that students of Civil, Production, Mechanical, Electrical and Electronics Engineering, Commerce,Management, CA and ICWA can derive maximum benefit.

OPERATIONS RESEARCH - N. K. TIWARI 2006-01-01
Primarily intended for postgraduate students of management and computer applications, this book presents the theory and applications of operations research in an easy-to-read style. It introduces the readers to various models of operations research, such as transportation model, assignment model, inventory model, queuing model, replacement model, sequencing model, and integer programming model. The various methods to solve real-life problems faced by managers are also fully analyzed. Separate chapters are devoted to Linear Programming, Decision Theory, Game Theory, Dynamic Programming, and Project Management, which greatly help the decision-making process. The text features numerous fully worked-out examples, a fairly large number of exercises, and end-of-chapter theoretical questions which enhance the value of the text. Besides postgraduate students of management (MBA), computer applications (MCA), commerce, mathematics, and statistics, students of engineering will also find this text extremely useful.

Engineering Mathematics - Babu Ram 2009
Engineering Mathematics covers the four mathematics papers that are offered to undergraduate students of engineering. With an emphasis on problem-solving techniques and engineering applications, as well as detailed explanations of the mathematical concepts, this book will give the students a complete grasp of the mathematical skills that are needed by engineers.

Operations Research Models for Business and Industry - Giuseppe Maria Ferrero Di Roccaferrera 1964

Schaum's Outline of Operations Management - Joseph Monks 1996-08-22
Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.