

How To Find Optimal Solution In Transportation Problem

Multilevel Optimization: Algorithms and Applications The Subdifferential of the Optimal Solution in Parametric Optimization Linear Optimization and Extensions **EXISTENCE AND DISCOVERY OF AVERAGE OPTIMAL SOLUTIONS IN DETERMINISTIC INFINITE HORIZON OPTIMIZATION** Mathematical Theory of Optimization **Quantitative Techniques** Interior Point Methods for Linear Optimization Mathematical Programming Linear Programming and Resource Allocation Modeling Aimms Optimization Modeling Super-optimum Solutions and Win-win Policy Nonlinear Optimization Strategic allocation of resources using linear programming model with parametric analysis: in MATLAB and Excel Solver Understanding and Using Linear Programming Methods of Mathematical Economics Introduction to Global Optimization **Resolving International Disputes Through Super-optimum Solutions** Optimization Techniques in Operation Research **Linear Programming And Network Flows, 2Nd Ed** **Elements of Optimization** **Hierarchical Optimization and Mathematical Physics** Optimal Solution for Set-valued Optimization Problems **Business Optimization Using Mathematical Programming** **Operations Research** **Optimization in the Real World** **Data Envelopment Analysis** Problems in Operation Research (Principles & Solution) **Negotiation in Decentralization** Intelligent Computing & Optimization **Optimization Theory with Applications** **Optimal Solution of Nonlinear Equations** Deterioration and Optimal Rehabilitation Modelling for Urban Water Distribution Systems

Modeling and Solving Linear Programming with R An Introduction to Management Science: Quantitative Approaches to Decision Making Theory of Optimal Control and Mathematical Programming Multi-objective Optimization Combinatorial Optimization and Applications Grey Game Theory and Its Applications in Economic Decision-Making Optimization for Engineering Systems Handbook of Optimization in Telecommunications

Eventually, you will certainly discover a extra experience and exploit by spending more cash. still when? complete you put up with that you require to get those all needs later than having significantly cash? Why dont you attempt to get something basic in the beginning? Thats something that will lead you to comprehend even more in this area the globe, experience, some places, next history, amusement, and a lot more?

It is your categorically own period to deed reviewing habit. among guides you could enjoy now is **How To Find Optimal Solution In Transportation Problem** below.

Super-optimum Solutions and Win-win Policy Dec 25 2021
Introduces the basic concepts and principles of a unique and highly effective technique--super-optimizing decision making--and explains how public-sector policy makers can use it in various fields.
Deterioration and Optimal Rehabilitation Modelling for

Urban Water Distribution Systems Mar 04 2020
Pipe failures in water distribution systems can have a serious impact and hence it's important to maintain the condition and integrity of the distribution system. This book presents a whole-life cost optimisation model for the rehabilitation of water distribution systems. It

combines a pipe breakage number prediction model with a pipe criticality assessment model, which enables the creation of a well-constructed and more tightly constrained optimisation model. The pipe breakage number prediction model combines information on the physical characteristics of the pipes with historical information on breakage and failure rates. A weighted multiple nonlinear regression analysis is applied to describe the condition of different pipe groups. The criticality assessment model combines a pipe's condition with its hydraulic significance through a modified TOPSIS. This model enables the optimisation to focus its efforts on those important pipes. The whole life cost optimal rehabilitation model is a multiple-objective and multiple-stage model, which provides a suite of rehabilitation decisions that minimise the whole life cost while maximising its long-term performance. The optimisation model is solved using a modified NSGA-II. The utility of

the developed models is that it allows decision makers to prioritize their rehabilitation strategy in a proactive and cost-effective manner.

[Optimal Solution for Set-valued Optimization Problems](#) Jan 14 2021

Multi-objective Optimization

Oct 30 2019 Following a brief introduction and general review on the development of multi-objective optimization applications in chemical engineering since 2000, the book gives a description of selected multi-objective techniques and then goes on to discuss chemical engineering applications. These applications are from diverse areas within chemical engineering, and are presented in detail. Several exercises are included at the end of many chapters.

Data Envelopment Analysis

Sep 09 2020 This volume systematically details both the basic principles and new developments in Data Envelopment Analysis (DEA), offering a solid understanding of the methodology, its uses,

and its potential. New material in this edition includes coverage of recent developments that have greatly extended the power and scope of DEA and have led to new directions for research and DEA uses. Each chapter accompanies its developments with simple numerical examples and discussions of actual applications. The first nine chapters cover the basic principles of DEA, while the final seven chapters provide a more advanced treatment.

Business Optimization Using Mathematical Programming Dec 13 2020

This book presents a structured approach to formulate, model, and solve mathematical optimization problems for a wide range of real world situations. Among the problems covered are production, distribution and supply chain planning, scheduling, vehicle routing, as well as cutting stock, packing, and nesting. The optimization techniques used to solve the problems are primarily linear, mixed-integer linear, nonlinear,

and mixed integer nonlinear programming. The book also covers important considerations for solving real-world optimization problems, such as dealing with valid inequalities and symmetry during the modeling phase, but also data interfacing and visualization of results in a more and more digitized world. The broad range of ideas and approaches presented helps the reader to learn how to model a variety of problems from process industry, paper and metals industry, the energy sector, and logistics using mathematical optimization techniques.

Optimal Solution of Nonlinear Equations Apr 04 2020

Optimal Solution of Nonlinear Equations is a text/monograph designed to provide an overview of optimal computational methods for the solution of nonlinear equations, fixed points of contractive and noncontractive mapping, and for the computation of the topological degree. It is of interest to any reader working in the area of Information-

Based Complexity. The worst-case settings are analyzed here. Several classes of functions are studied with special emphasis on tight complexity bounds and methods which are close to or achieve these bounds. Each chapter ends with exercises, including companies and open-ended research based exercises.

Mathematical Theory of Optimization Jun 30 2022 This book provides an introduction to the mathematical theory of optimization. It emphasizes the convergence theory of nonlinear optimization algorithms and applications of nonlinear optimization to combinatorial optimization. Mathematical Theory of Optimization includes recent developments in global convergence, the Powell conjecture, semidefinite programming, and relaxation techniques for designs of approximation solutions of combinatorial optimization problems.

Introduction to Global Optimization Jul 20 2021 A

textbook for an undergraduate course in mathematical programming for students with a knowledge of elementary real analysis, linear algebra, and classical linear programming (simple techniques). Focuses on the computation and characterization of global optima of nonlinear functions, rather than the locally optimal solutions addressed by most books on optimization.

Incorporates the theoretical, algorithmic, and computational advances of the past three decades that help solve globally multi-extreme problems in the mathematical modeling of real world systems. Annotation copyright by Book News, Inc., Portland, OR

Linear Optimization and Extensions Sep 02 2022 This book offers a comprehensive treatment of the exercises and case studies as well as summaries of the chapters of the book "Linear Optimization and Extensions" by Manfred Padberg. It covers the areas of linear programming and the optimization of linear functions

over polyhedra in finite dimensional Euclidean vector spaces. Here are the main topics treated in the book: Simplex algorithms and their derivatives including the duality theory of linear programming. Polyhedral theory, pointwise and linear descriptions of polyhedra, double description algorithms, Gaussian elimination with and without division, the complexity of simplex steps. Projective algorithms, the geometry of projective algorithms, Newtonian barrier methods. Ellipsoids algorithms in perfect and in finite precision arithmetic, the equivalence of linear optimization and polyhedral separation. The foundations of mixed-integer programming and combinatorial optimization.

Negotiation in

Decentralization Jul 08 2020

The Chinese government set a target to reduce China's carbon intensity by 40%-45% in 2020 at its 2005 level. To achieve this target, the government has allocated

targets to provinces, cities, and large enterprises, and selected five pilot provinces and eight cities for CO₂ emission trading. Such emission trading process will involve decentralization, optimization, and negotiation. The prime objective of this book is to perform academic research on simulating the negotiation process. Through this research, a methodological framework and its implementation are set up to analyze, model and facilitate the process of negotiation among central government and individual energy producers under environmental, economical and social constraints. Negotiation In Decentralization: Case Study Of China's Carbon Trading In The Power Sector discusses research carried out on negotiation issues in China regarding Chinese power sector reform over the past 30 years. Results show that conflicts exist between power groups and the national government, and that the most current negotiation topics in China's power industry are

demand and supply management, capital investment, energy prices, and CO2 emission mitigations.

Negotiation In

Decentralization: Case Study Of China's Carbon Trading In The Power Sector is written for government policy makers, energy and environment industry investors, energy program and project managers, environment conservation specialists, university professors, researchers, and graduate students. It aims to provide a methodology and a tool that can resolve difficult negotiation issues and change a loss-loss situation to a win-win situation for key players in a decentralized system, including government policymakers, energy producers, and environment conservationists.

Nonlinear Optimization Nov 23 2021 This book provides a comprehensive introduction to nonlinear programming, featuring a broad range of applications and solution methods in the field of continuous optimization. It

begins with a summary of classical results on unconstrained optimization, followed by a wealth of applications from a diverse mix of fields, e.g. location analysis, traffic planning, and water quality management, to name but a few. In turn, the book presents a formal description of optimality conditions, followed by an in-depth discussion of the main solution techniques. Each method is formally described, and then fully solved using a numerical example.

[The Subdifferential of the Optimal Solution in Parametric Optimization](#) Oct 03 2022

An Introduction to Management Science: Quantitative Approaches to Decision Making Jan 02 2020

Reflecting the latest developments in Microsoft Office Excel 2013, Anderson/Sweeney/Williams/Camm/Cochran/Fry/Ohlmann's AN INTRODUCTION TO MANAGEMENT SCIENCE: QUANTITATIVE APPROACHES TO DECISION MAKING, 14E equips readers with a sound

conceptual understanding of the role that management science plays in the decision-making process. The trusted market leader for more than two decades, the book uses a proven problem-scenario approach to introduce each quantitative technique within an applications setting. All data sets, applications, and screen visuals reflect the details of Excel 2013 to effectively prepare you to work with the latest spreadsheet tools.

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Mathematical Programming
Mar 28 2022 This book serves as an introductory text in mathematical programming and optimization for students having a mathematical background that includes one semester of linear algebra and a complete calculus sequence. It includes computational examples to aid students develop computational skills.

Methods of Mathematical Economics
Aug 21 2021 Easy-

to-read classic, covering Wolfe's method and the Kuhn-Tucker theory.

Aimms Optimization Modeling
Jan 26 2022 The AIMMS

Optimization Modeling book provides not only an introduction to modeling but also a suite of worked examples. It is aimed at users who are new to modeling and those who have limited modeling experience. Both the basic concepts of optimization modeling and more advanced modeling techniques are discussed. The Optimization Modeling book is AIMMS version independent.

Intelligent Computing & Optimization
Jun 06 2020

Fourth edition of International Conference on Intelligent Computing and Optimization took place at December 30-31, 2021, via ZOOM. Objective was to celebrate "Compassion and Wisdom" with researchers, scholars, experts and investigators in Intelligent Computing and Optimization worldwide, to share knowledge, experience, innovation--marvelous

opportunity for discourse and mutuality by novel research, invention and creativity.

Modeling and Solving Linear Programming with R

Feb 01 2020 Linear programming is one of the most extensively used techniques in the toolbox of quantitative methods of optimization. One of the reasons of the popularity of linear programming is that it allows to model a large variety of situations with a simple framework. Furthermore, a linear program is relatively easy to solve. The simplex method allows to solve most linear programs efficiently, and the Karmarkar interior-point method allows a more efficient solving of some kinds of linear programming. The power of linear programming is greatly enhanced when came the opportunity of solving integer and mixed integer linear programming. In these models all or some of the decision variables are integers, respectively. In this book we provide a brief introduction to linear programming, together

with a set of exercises that introduce some applications of linear programming. We will also provide an introduction to solve linear programming in R. For each problem a possible solution through linear programming is introduced, together with the code to solve it in R and its numerical solution.

Grey Game Theory and Its Applications in Economic Decision-Making

Aug 28 2019 To make the best decisions, you need the best information. However, because most issues in game theory are grey, nearly all recent research has been carried out using a simplified method that considers grey systems as white ones. This often results in a forecasting function that is far from satisfactory when applied to many real situations. Grey Game Theory and Its Applications in Economic Decision Making introduces classic game theory into the realm of grey system theory with limited knowledge. The book resolves three theoretical issues: A game equilibrium of

grey game A reasonable explanation for the equilibrium of a grey matrix of static nonmatrix game issues based on incomplete information The Centipede Game paradox, which has puzzled theory circles for a long time and greatly enriched and developed the core methods of subgame Nash perfect equilibrium analysis as a result The book establishes a grey matrix game model based on pure and mixed strategies. The author proposes the concepts of grey saddle points, grey mixed strategy solutions, and their corresponding structures and also puts forward the models and methods of risk measurement and evaluation of optimal grey strategies. He raises and solves the problems of grey matrix games. The book includes definitions of the test rules of information distortion experienced during calculation, the design of tokens based on new interval grey numbers, and new arithmetic laws to manipulate grey numbers. These features combine to provide a practical and

efficient tool for forecasting real-life economic problems.

Operations Research Nov 11 2020 Operations research encompasses a wide range of problem-solving techniques and methods applied in the pursuit of improved decision-making and efficiency. Some of the tools used by operations researchers are statistics, optimization, probability theory, queuing theory, game theory, graph theory, decision analysis, mathematical modeling and simulation. An Information System is any combination of information technology and people's activities using that technology to support operations, management, and decision-making. In a very broad sense, the term information system is frequently used to refer to the interaction between people, algorithmic processes, data and technology. Operations Research is the scientific study of logistic networks to provide for decision support at all levels in order to optimize production and distribution of the commodity flows.

Nowadays, these logistic networks have become very large and may range over several countries, while the demands for quality of service have grown similarly to ever higher standards. Generally one agrees that to maintain such large networks successfully, one needs the control of all the information flows through the network, that is, continuous information on the status of the resources. Operations research is an interdisciplinary branch of applied mathematics and formal science that uses advanced analytical methods such as mathematical modeling, statistical analysis, and mathematical optimization to arrive at optimal or near-optimal solutions to complex decision-making problems. It is often concerned with determining the maximum or minimum of some real-world objective. The book of operations management features the latest concepts and applications while not losing focus on the core concepts that has made this

text a market leader.

Optimization Theory with Applications May 06 2020

Broad-spectrum approach to important topic. Explores the classic theory of minima and maxima, classical calculus of variations, simplex technique and linear programming, optimality and dynamic programming, more. 1969 edition.

Handbook of Optimization in Telecommunications Jun 26

2019 This comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications. It is the first book to cover in detail the field of optimization in telecommunications. Recent optimization developments that are frequently applied to telecommunications are covered. The spectrum of topics covered includes planning and design of telecommunication networks, routing, network protection, grooming, restoration, wireless communications, network location and assignment problems, Internet protocol,

World Wide Web, and stochastic issues in telecommunications. The book's objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization. Strategic allocation of resources using linear programming model with parametric analysis: in MATLAB and Excel Solver Oct 23 2021 Since the late 1940s, linear programming models have been used for many different purposes. Airline companies apply these models to optimize their use of planes and staff. NASA has been using them for years to optimize their use of limited resources. Oil companies use them to optimize their refinery operations. Small and medium-sized businesses use linear programming to solve a huge variety of problems, often involving resource allocation. In my study, a typical product-mix problem in a manufacturing system producing two products (each

product consists of two sub-assemblies) is solved for its optimal solution through the use of the latest versions of MATLAB having the command `simlp`, which is very much like `linprog`. As analysts, we try to find a good enough solution for the decision maker to make a final decision. Our attempt is to give the mathematical description of the product-mix optimization problem and bring the problem into a form ready to call MATLAB's `simlp` command. The objective of this study is to find the best product mix that maximizes profit. The graph obtained using MATLAB commands, give the shaded area enclosed by the constraints called the feasible region, which is the set of points satisfying all the constraints. To find the optimal solution we look at the lines of equal profit to find the corner of the feasible region which yield the highest profit. This corner can be found out at the farthest line of equal profit, which still touches the feasible region. The most critical part is the sensitivity analysis, using

Excel Solver, and Parametric Analysis, using computer software, which allows us to study the effect on optimal solution due to discrete and continuous change in parameters of the LP model including to identify bottlenecks. We have examined other options like product outsourcing, one-time cost, cross training of one operator, manufacturing of hypothetical third product on under-utilized machines and optimal sequencing of jobs on machines.

Elements of Optimization

Mar 16 2021 This book presents in one short volume and in simple fashion the mathematical concepts and tools which underlie the various optimization procedures commonly used by such scientists as economists, operations researchers, and engineers. The mathematical background assumed is one year's calculus (not well remembered) and some acquaintance with elementary vector and matrix terminology. An important feature of the

book is its emphasis on plausibility over formal abstraction or rigor, and basic principles are illustrated with examples worked out in detailed step by step manner.

Theory of Optimal Control and Mathematical

Programming Dec 01 2019

"This book has three basic aims: to present a unified theory of optimization, to introduce nonlinear programming algorithms to the control engineer, and to introduce the nonlinear programming expert to optimal control. This volume can be used either as a graduate text or as a reference text." -- Preface.

Resolving International Disputes Through Super-optimum Solutions Jun 18

2021 This book concerns resolving conflicts on an international level. The author states that for the purposes of this book, the dispute would have to be at the level of a war, revolution, or other dispute that involves substantial bloodshed on one or more sides, rather than a dispute

that merely involves words, economic competition, or non-violent conflict. The SOS Resolution is a special kind of Win-Win dispute resolution where one where both or all sides come out ahead of even their best initial expectations simultaneously. The steps and strategies of this resolution are fully explained.

Linear Programming and Resource Allocation Modeling
Feb 24 2022 Guides in the application of linear programming to firm decision making, with the goal of giving decision-makers a better understanding of methods at their disposal Useful as a main resource or as a supplement in an economics or management science course, this comprehensive book addresses the deficiencies of other texts when it comes to covering linear programming theory—especially where data envelopment analysis (DEA) is concerned—and provides the foundation for the development of DEA. Linear Programming and Resource Allocation Modeling begins by

introducing primal and dual problems via an optimum product mix problem, and reviews the rudiments of vector and matrix operations. It then goes on to cover: the canonical and standard forms of a linear programming problem; the computational aspects of linear programming; variations of the standard simplex theme; duality theory; single- and multiple- process production functions; sensitivity analysis of the optimal solution; structural changes; and parametric programming. The primal and dual problems are then reformulated and re-examined in the context of Lagrangian saddle points, and a host of duality and complementary slackness theorems are offered. The book also covers primal and dual quadratic programs, the complementary pivot method, primal and dual linear fractional functional programs, and (matrix) game theory solutions via linear programming, and data envelopment analysis (DEA). This book: Appeals to those wishing to solve linear

optimization problems in areas such as economics, business administration and management, agriculture and energy, strategic planning, public decision making, and health care. Fills the need for a linear programming applications component in a management science or economics course. Provides a complete treatment of linear programming as applied to activity selection and usage. Contains many detailed example problems as well as textual and graphical explanations. **Linear Programming and Resource Allocation Modeling** is an excellent resource for professionals looking to solve linear optimization problems, and advanced undergraduate to beginning graduate level management science or economics students.

[Interior Point Methods for Linear Optimization](#) Apr 28 2022 The era of interior point methods (IPMs) was initiated by N. Karmarkar's 1984 paper, which triggered turbulent research and reshaped almost

all areas of optimization theory and computational practice. This book offers comprehensive coverage of IPMs. It details the main results of more than a decade of IPM research. Numerous exercises are provided to aid in understanding the material.

Hierarchical Optimization and Mathematical Physics

Feb 12 2021 This book should be considered as an introduction to a special class of hierarchical systems of optimal control, where subsystems are described by partial differential equations of various types. Optimization is carried out by means of a two-level scheme, where the center optimizes coordination for the upper level and subsystems find the optimal solutions for independent local problems. The main algorithm is a method of iterative aggregation. The coordinator solves the problem with macrovariables, whose number is less than the number of initial variables. This problem is often very simple. On the lower level, we have the usual

optimal control problems of mathematical physics, which are far simpler than the initial statements. Thus, the decomposition (or reduction to problems of less dimensions) is obtained. The algorithm constructs a sequence of so-called disaggregated solutions that are feasible for the main problem and converge to its optimal solution under certain assumptions (e.g., under strict convexity of the input functions). Thus, we bridge the gap between two disciplines: optimization theory of large-scale systems and mathematical physics. The first motivation was a special model of branch planning, where the final product obeys a preset assortment relation. The ratio coefficient is maximized. Constraints are given in the form of linear inequalities with block diagonal structure of the part of a matrix that corresponds to subsystems. The central coordinator assembles the final production from the components produced by the subsystems.

Linear Programming And

Network Flows, 2Nd Ed Apr 16 2021 The book addresses the problem of minimizing or maximizing a linear function in the presence of linear equality or inequality constraints. The general theory and characteristics of optimization problems are presented, along with effective solution algorithms. It explores linear programming and network flows, employing polynomial-time algorithms and various specializations of the simplex method. The text also includes many numerical examples to illustrate theory and techniques.

- Linear Algebra, Convex Analysis, and Polyhedral Sets
- The Simplex Method
- Starting Solution and Convergence
- Special Simplex Implementations and Optimality Conditions
- Duality and Sensitivity Analysis
- The Decomposition Principle
- Complexity of the Simplex Algorithm and Polynomial Algorithms
- Minimal Cost Network Flows
- The Transportation and Assignment Problems
- The Out-of-Kilter Algorithm
- Maximal Flow,

Shortest Path, Multicommodity Flow, and Network Synthesis Problems

Combinatorial Optimization and Applications Sep 29 2019

This book constitutes the refereed proceedings of the 8th International Conference on Combinatorial Optimization and Applications, COCOA 2014, held on the island of Maui, Hawaii, USA, in December 2014. The 56 full papers included in the book were carefully reviewed and selected from 133 submissions. Topics covered include classic combinatorial optimization; geometric optimization; network optimization; optimization in graphs; applied optimization; CSoNet; and complexity, cryptography, and games.

Understanding and Using Linear Programming Sep 21 2021 The book is an introductory textbook mainly for students of computer science and mathematics. Our guiding phrase is "what every theoretical computer scientist should know about linear programming". A major focus is

on applications of linear programming, both in practice and in theory. The book is concise, but at the same time, the main results are covered with complete proofs and in sufficient detail, ready for presentation in class. The book does not require more prerequisites than basic linear algebra, which is summarized in an appendix. One of its main goals is to help the reader to see linear programming "behind the scenes".

EXISTENCE AND DISCOVERY OF AVERAGE OPTIMAL SOLUTIONS IN DETERMINISTIC INFINITE HORIZON OPTIMIZATION

Aug 01 2022

Quantitative Techniques

May 30 2022 Quantitative Techniques: Theory and Problems adopts a fresh and novel approach to the study of quantitative techniques, and provides a comprehensive coverage of the subject. Essentially designed for extensive practice and self-study, this book will serve as a tutor at home. Chapters contain theory in brief,

numerous solved examples and exercises with exhibits and tables.

Optimization in the Real

World Oct 11 2020 This book clearly shows the importance, usefulness, and powerfulness of current optimization technologies, in particular, mixed-integer programming and its remarkable applications. It is intended to be the definitive study of state-of-the-art optimization technologies for students, academic researchers, and non-professionals in industry. The chapters of this book are based on a collection of selected and extended papers from the “IMI Workshop on Optimization in the Real World” held in October 2014 in Japan.

Optimization for Engineering Systems Jul 28 2019

Optimization Techniques in Operation Research May 18 2021 Special features of the book 1. A very comprehensive and accessible approach in the presentation of the material. 2. A variety of solved examples to illustrate the theoretical

results. 3. A large number of unsolved exercises for the students are given for practice at the end of each section. 4. Solution to each unsolved examples are given at the end of each exercise.

Multilevel Optimization: Algorithms and Applications

Nov 04 2022 Sixteen chapters explore the mathematics of multilevel programming in decision procedures. Hierarchy structures are found in governmental decision making with regard to land-use and economic planning, as well as a number of scientific disciplines, including environmental studies, ecology, biology, mechanics, and classification theory. The majority of the papers were selected from the November, 1995 Bilevel Programming Workshop, and treat such topics as: the relationship between linear optimization over the efficient set and the bilevel linear programming problem; characterizations of globally and locally optimal solutions in parametric convex lexicographic optimization, and

a number of other issues.
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Book News, Inc., Portland, OR
*Problems in Operation
Research (Principles &
Solution)* Aug 09 2020 We take
great pleasure in presenting to
the readers the second
thoroughly revised edition of the

book after a number of
reprints. The suggestions
received from the readers have
been carefully incorporated in
this edition and almost the
entire subject matter has been
reorganised, revised and
rewritten.