



# Stochastic Linear Programming

**Peter Kall**



## **Stochastic Linear Programming:**

**Stochastic Linear Programming** Peter Kall, János Mayer, 2005-07-25 Peter Kall and János Mayer are distinguished scholars and professors of Operations Research and their research interest is particularly devoted to the area of stochastic optimization. **Stochastic Linear Programming: Models, Theory and Computation** is a definitive presentation and discussion of the theoretical properties of the models, the conceptual algorithmic approaches and the computational issues relating to the implementation of these methods to solve problems that are stochastic in nature. The application area of stochastic programming includes portfolio analysis, financial optimization, energy problems, random yields in manufacturing, risk analysis, etc. In this book, models in financial optimization and risk analysis are discussed as examples, including solution methods and their implementation. Stochastic programming is a fast developing area of optimization and mathematical programming. Numerous papers and conference volumes and several monographs have been published in the area; however, the Kall and Mayer book will be particularly useful in presenting solution methods, including their solid theoretical basis and their computational issues, based in many cases on implementations by the authors. The book is also suitable for advanced courses in stochastic optimization.

**Stochastic Decomposition** Julia L. Hingle, Suvrajeet Sen, 1996-02-29 This book summarizes developments related to a class of methods called Stochastic Decomposition (SD) algorithms, which represent an important shift in the design of optimization algorithms. Unlike traditional deterministic algorithms, SD combines sampling approaches from the statistical literature with traditional mathematical programming constructs, e.g., decomposition, cutting planes, etc. This marriage of two highly computationally oriented disciplines leads to a line of work that is most definitely driven by computational considerations. Furthermore, the use of sampled data in SD makes it extremely flexible in its ability to accommodate various representations of uncertainty, including situations in which outcomes/scenarios can only be generated by an algorithm simulation. The authors report computational results with some of the largest stochastic programs arising in applications. These results, mathematical as well as computational, are the tip of the iceberg. Further research will uncover extensions of SD to a wider class of problems. Audience: Researchers in mathematical optimization, including those working in telecommunications, electric power generation, transportation planning, airlines, and production systems. Also suitable as a text for an advanced course in stochastic optimization.

**Stochastic Linear Programming Algorithms** János Mayer, 2022-04-19 A computationally oriented comparison of solution algorithms for two-stage and jointly chance constrained stochastic linear programming problems. This is the first book to present comparative computational results with several major stochastic programming solution approaches. The following methods are considered: regularized decomposition, stochastic decomposition, and successive discrete approximation methods for two-stage problems; cutting plane methods; and a reduced gradient method for jointly chance constrained problems. The first part of the book introduces the algorithms, including a unified approach to decomposition methods and their regularized counterparts. The second part addresses

computer implementation of the methods describes a testing environment based on a model management system and presents comparative computational results with the various algorithms. Emphasis is on the computational behavior of the algorithms.

Stochastic Linear Programming P. Kall, 1976-01-01 Today many economists, engineers and mathematicians are familiar with linear programming and are able to apply it. This is owing to the following facts: during the last 25 years efficient methods have been developed; at the same time sufficient computer capacity became available; finally in many different fields linear programs have turned out to be appropriate models for solving practical problems. However, to apply the theory and the methods of linear programming it is required that the data determining a linear program be fixed known numbers. This condition is not fulfilled in many practical situations, e.g. when the data are demands, technological coefficients, available capacities, cost rates, and so on. It may happen that such data are random variables. In this case it seems to be common practice to replace these random variables by their mean values and solve the resulting linear program. By 1960 various authors had already recognized that this approach is unsound. Between 1955 and 1960 there were such papers as *Linear Programming under Uncertainty*, *Stochastic Linear Programming with Applications to Agricultural Economics*, *Chance Constrained Programming*, *Inequalities for Stochastic Linear Programming Problems*, and *An Approach to Linear Programming under Uncertainty*.

**Introduction to Stochastic Programming** John R. Birge, François Louveaux, 2006-04-06 This rapidly developing field encompasses many disciplines including operations research, mathematics, and probability. Conversely, it is being applied in a wide variety of subjects ranging from agriculture to financial planning and from industrial engineering to computer networks. This textbook provides a first course in stochastic programming suitable for students with a basic knowledge of linear programming, elementary analysis, and probability. The authors present a broad overview of the main themes and methods of the subject, thus helping students develop an intuition for how to model uncertainty into mathematical problems, what uncertainty changes bring to the decision process, and what techniques help to manage uncertainty in solving the problems. The early chapters introduce some worked examples of stochastic programming, demonstrate how a stochastic model is formally built, develop the properties of stochastic programs, and the basic solution techniques used to solve them. The book then goes on to cover approximation and sampling techniques and is rounded off by an in-depth case study. A well-paced and wide-ranging introduction to this subject.

Stochastic linear programming Peter Kall, 1971

Applications of Stochastic Programming Stein W. Wallace, William T. Ziemba, 2005-06-01 Consisting of two parts, this book presents papers describing publicly available stochastic programming systems that are operational. It presents a diverse collection of application papers in areas such as production, supply chain, and scheduling, gaming, environmental, and pollution control, financial modeling, telecommunications, and electricity.

*Introduction to Stochastic Programming* John R. Birge, François Louveaux, 2011-06-15 The aim of stochastic programming is to find optimal decisions in problems which involve uncertain data. This field is currently developing rapidly with contributions from many disciplines.

including operations research mathematics and probability At the same time it is now being applied in a wide variety of subjects ranging from agriculture to financial planning and from industrial engineering to computer networks This textbook provides a first course in stochastic programming suitable for students with a basic knowledge of linear programming elementary analysis and probability The authors aim to present a broad overview of the main themes and methods of the subject Its prime goal is to help students develop an intuition on how to model uncertainty into mathematical problems what uncertainty changes bring to the decision process and what techniques help to manage uncertainty in solving the problems In this extensively updated new edition there is more material on methods and examples including several new approaches for discrete variables new results on risk measures in modeling and Monte Carlo sampling methods a new chapter on relationships to other methods including approximate dynamic programming robust optimization and online methods The book is highly illustrated with chapter summaries and many examples and exercises Students researchers and practitioners in operations research and the optimization area will find it particularly of interest Review of First Edition The discussion on modeling issues the large number of examples used to illustrate the material and the breadth of the coverage make Introduction to Stochastic Programming an ideal textbook for the area Interfaces 1998 Stochastic Programming Francesco Archetti,G. Di Pillo,Mario Lucertini,1986 **Stochastic Programming 84** András Prékopa,Roger J.-B. Wets,1986 *Stochastic Programming* V.V. Kolbin,1977-06-30 This book is devoted to the problems of stochastic or probabilistic programming The author took as his basis the specialized lectures which he delivered to the graduates from the economic cybernetics department of Leningrad University beginning in 1967 Since 1971 the author has delivered a specialized course on Stochastic Programming to the graduates from the faculty of applied mathematics management processes at Leningrad University The present monograph consists of seven chapters In Chapter I which is of an introductory character consideration is given to the problems of uncertainty and probability used for modelling complicated systems Fundamental indications for the classification of stochastic programming problems are given Chapter II is devoted to the analysis of various models of chance constrained stochastic programming problems Examples of technological and applied economic problems of management with chance constraints are given In Chapter III two stage stochastic programming problems are investigated various models are given and these models are qualitatively analyzed In the conclusion of the chapter consideration is given to the transport problem with random data the problem of the determination of production volume and the problem of planning the flights of aircraft as two stage stochastic programming problems Multi stage stochastic programming problems are investigated in Chapter IV The dependencies between prior and posterior decision rules and decision distributions are given Dual problems are investigated Stochastic Programming, Algorithms and Models Julia L. Hingle,S. Sen,1996 *Duality in Stochastic Linear and Dynamic Programming* Willem K. Klein Haneveld,2013-04-17 **Numerical Techniques for Stochastic Optimization** Илья́ Михайлович Ермо́лов,Roger J.-B.

Wets,1988     *Encyclopedia of Optimization* Christodoulos A. Floudas,Panos M. Pardalos,2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling     **Stochastic Linear Programming** Alan Gleit,1979     **A New Model for Stochastic Linear Programming** William Henry Evers,1966     **Stochastic Programming** Peter Kall,Stein W. Wallace,1994 After introducing the terms and modelling issues when randomness is introduced in a deterministic mathematical programming model the authors cover decision trees and dynamic programming recourse problems probabilistic constraints preprocessing and network problems Exercises are provided at the end of each chapter     **Two-Stage Stochastic Linear Programming With Recourse** DAVID T. MILLS,2025-05-22 The LP recourse problem applies to two stage optimization problems where uncertainty in resource availability of the second stage hinders informed decision making The recourse function affords a way to compensate later for an error in prediction now The literature provides a rich body of work on the optimization of such problems but little research has been accomplished regarding the characterization of the surface in the local region of optimality in particular sensitivity analysis A decision maker faced with considerations other than the modeled objective function must be presented with a way to estimate the impact of operating at non optimal decision variable values This work develops and demonstrates a technique for characterizing the surface using response surface methodology Specifically the flexibility and utility of RSM techniques applied to this class of problems is demonstrated and a methodology for characterizing the surface in the local region using a low order polynomial is developed This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant     **Stochastic Versus Fuzzy Approaches to Multiobjective Mathematical Programming under Uncertainty** Shi-Yu Huang,Jaques Teghem,2011-09-28 Operations Research is a field whose major contribution has been to

propose a rigorous formulation of often ill defined problems pertaining to the organization or the design of large scale systems such as resource allocation problems scheduling and the like While this effort did help a lot in understanding the nature of these problems the mathematical models have proved only partially satisfactory due to the difficulty in gathering precise data and in formulating objective functions that reflect the multi faceted notion of optimal solution according to human experts In this respect linear programming is a typical example of impressive achievement of Operations Research that in its deterministic form is not always adapted to real world decision making everything must be expressed in terms of linear constraints yet the coefficients that appear in these constraints may not be so well defined either because their value depends upon other parameters not accounted for in the model or because they cannot be precisely assessed and only qualitative estimates of these coefficients are available Similarly the best solution to a linear programming problem may be more a matter of compromise between various criteria rather than just minimizing or maximizing a linear objective function Lastly the constraints expressed by equalities or inequalities between linear expressions are often softer in reality than what their mathematical expression might let us believe and infeasibility as detected by the linear programming techniques can often be coped with by making trade offs with the real world

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## Stochastic Linear Programming Introduction

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