



Stochastic Linear Programming

Peter Kall, János Mayer



Stochastic Linear Programming:

Stochastic Linear Programming P. Kall, 2012-12-06 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*.

Stochastic Linear Programming Peter Kall, János Mayer, 2010-11-02 This new edition of *Stochastic Linear Programming: Models, Theory and Computation* has been brought completely up to date, either dealing with or at least referring to new material on models and methods, including DEA with stochastic outputs, modeled via constraints on special risk functions, generalizing chance constraints, ICCs and CVaR constraints, material on Sharpe ratio and Asset Liability Management models involving CVaR in a multi-stage setup. To facilitate use as a text, exercises are included throughout the book, and web access is provided to a student version of the authors' SLP IOR software. Additionally, the authors have updated the Guide to Available Software, and they have included newer algorithms and modeling systems for SLP. The book is thus suitable as a text for advanced courses in stochastic optimization and as a reference to the field. From Reviews of the First Edition: The book presents a comprehensive study of stochastic linear optimization problems and their applications. The presentation includes geometric interpretation, linear programming duality, and the simplex method in its primal and dual forms. The authors have made an effort to collect the most useful recent ideas and algorithms in this area. A guide to the existing software is included as well. Darinka Dentcheva, *Mathematical Reviews*, Issue 2006c. This is a graduate text in optimisation whose main emphasis is in stochastic programming. The book is clearly written. This is a good book for providing mathematicians, economists, and engineers with an almost complete start-up information for working in the field. I heartily welcome its publication. It is evident that this book will constitute an obligatory reference source for the specialists of the field. Carlos Narciso Bouza Herrera, *Zentralblatt MATH*, Vol. 1104, 6, 2007.

Stochastic Decomposition Julia L. Hight, S. Sen, 2013-11-27 Motivation: Stochastic Linear Programming with recourse represents one of the more widely applicable models for incorporating uncertainty within in which the SLP optimization models. There are several arenas model is

appropriate and such models have found applications in air line yield management capacity planning electric power generation planning financial planning logistics telecommunications network planning and many more In some of these applications modelers represent uncertainty in terms of only a few scenarios and formulate a large scale linear program which is then solved using LP software However there are many applications such as the telecommunications planning problem discussed in this book where a handful of scenarios do not capture variability well enough to provide a reasonable model of the actual decision making problem Problems of this type easily exceed the capabilities of LP software by several orders of magnitude Their solution requires the use of algorithmic methods that exploit the structure of the SLP model in a manner that will accommodate large scale applications

Stochastic Linear Programming Algorithms Janos 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

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 [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 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 *Stochastic Programming* Francesco Archetti, G. Di Pillo, Mario Lucertini, 1986 *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 **Stochastic Programming, Algorithms and Models** Julia L. Higney, S. Sen, 1996 **Duality in Stochastic Linear and Dynamic Programming** Willem K. Klein Haneveld, 2013-04-17 **Stochastic Programming 84** András Prékopa, Roger J.-B. Wets, 1986 [Stochastic linear programming](#) Vikram Boda Reddy, 1981 **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

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An Algorithm for a Class of Stochastic Linear Programming Problems John Philip Matthews,1971 [A New Model for Stochastic Linear Programming](#) William Henry Evers,1966 **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 Linear Programming* Paul van Moeseke,1960 **Stochastic Linear Programming** Alan Gleit,1979 **Stochastic linear programming** Peter Kall,1971

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