



Stochastic Linear Programming

R Barnett



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 Algorithms Janos Mayer, 1998-02-25 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

Stochastic Decomposition Julia L. Hingle, 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 Peter Kall, János Mayer, 2010-11-11 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 ICC s 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 2006 c 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 **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

Two-Stage Stochastic Linear Programming with Recourse David Mills, 1999-03-01 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

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 **Planning Under Uncertainty** Gerd Infanger, 1994 *Stochastic Programming, Algorithms and Models* Julia L. Hingle, S. Sen, 1996

Stochastic Programming 84 András Prékopa, Roger J.-B. Wets, 1986 **Stochastic linear programming** Peter Kall, 1971 **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 *Duality in Stochastic Linear and Dynamic Programming* Willem K. Klein Haneveld,2013-04-17 **Stochastic Programming** Francesco Archetti,G. Di Pillo,Mario Lucertini,1986 **Stochastic Linear Programming** Paul van Moeseke,1960 **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 linear programming* Vikram Boda Reddy,1981 **A New Model for Stochastic Linear Programming** William Henry Evers,1966 Stochastic Linear Programming Charles B. Millham,1962

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