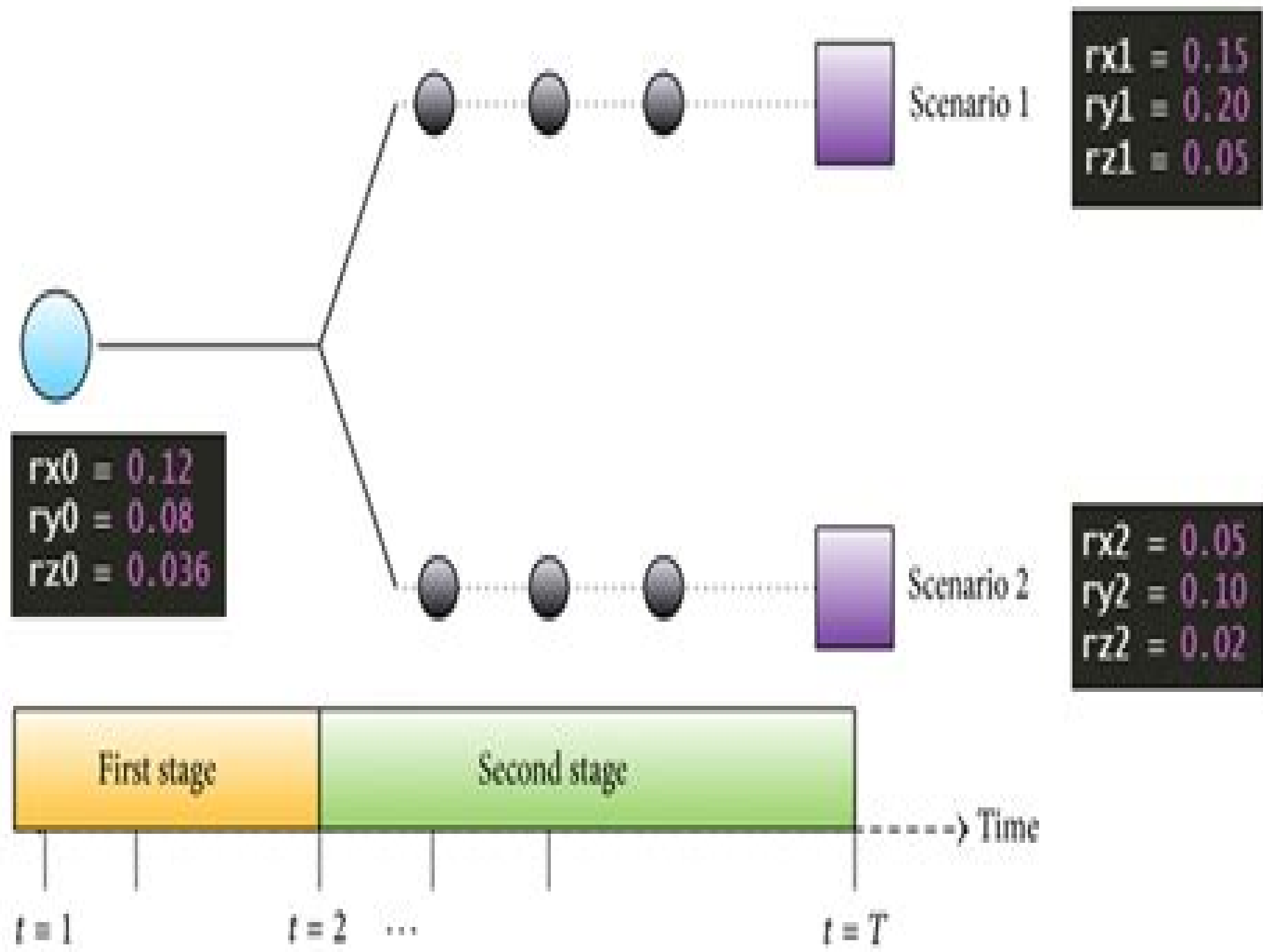




Stochastic Linear Programming

Peter Kall



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.

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 where 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, 2005 Peter Kall and Janos 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

Introduction to Stochastic Programming John Birge, François Louveaux, 2000-02-02 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 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 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 linear programming** Peter Kall, 1971 **Stochastic Programming, Algorithms and**

Models Julia L. Hingle, S. Sen, 1996 *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 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Stochastic Linear Programming**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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