

Chapter 6

Mean-Variance Portfolio Theory

1. (Shorting with margin) The money invested is X_0 . The money received at the end of a year is $X_0 - X_1 + X_0$. Hence,

$$R = \frac{2X_0 - X_1}{X_0}$$

2. (Dice product) Let a and b be the outcomes of two dice rolls. Then $Z = ab$. By independence, we know

$$\begin{aligned} E[ab] &= E[a]E[b] \\ \text{and } \text{var}[Z] &= E[a^2]E[b^2] - (E[a]E[b])^2 \\ &\approx 79.97 \end{aligned}$$

3. (Two correlated assets) For solution method, see solution to problem called Two stocks (below).

(a) α equals $19/23$.

(b) The minimum standard deviation is approximately 13.7%.

(c) The expected return of this portfolio is approximately 11.4%.

4. (Two stocks) Let α, β equal the percent of investment in stock 1 and stock 2, respectively. The problem is

$$\min \alpha^2 \sigma_1^2 + \beta^2 \sigma_2^2 + 2\alpha\beta\sigma_{12}$$

$$\text{subject to } \alpha + \beta = 1.$$

Setting up the Lagrangian, L , we have:

$$L = \alpha^2 \sigma_1^2 + \beta^2 \sigma_2^2 + 2\alpha\beta\sigma_{12} - \lambda(\alpha + \beta - 1)$$

The first order necessary conditions are:

$$0 = \frac{\partial L}{\partial \alpha} = 2\alpha\sigma_1^2 + 2\beta\sigma_{12} - \lambda$$

Luenberger Solutions Chapter 6

John A. Trangenstein



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Linear and Nonlinear Programming David G. Luenberger, 2003-09-30 The original edition of this book was celebrated for its coverage of the central concepts of practical optimization techniques This updated edition expands and illuminates the connection between the purely analytical character of an optimization problem expressed by properties of the necessary conditions and the behavior of algorithms used to solve a problem Incorporating modern theoretical insights this classic text is even more useful

Optimization by Vector Space Methods David G. Luenberger, 1997-01-23 Engineers must make decisions regarding the distribution of expensive resources in a manner that will be economically beneficial This problem can be realistically formulated and logically analyzed with optimization theory This book shows engineers how to use optimization theory to solve complex problems Unifies the large field of optimization with a few geometric principles Covers functional analysis with a minimum of mathematics Contains problems that relate to the applications in the book

Nonlinear Functional Analysis and its Applications E. Zeidler, 2013-12-11 As long as a branch of knowledge offers an abundance of problems it is full of vitality David Hilbert Over the last 15 years I have given lectures on a variety of problems in nonlinear functional analysis and its applications In doing this I have recommended to my students a number of excellent monographs devoted to specialized topics but there was no complete survey type exposition of nonlinear functional analysis making available a quick survey to the wide range of readers including mathematicians natural scientists and engineers who have only an elementary knowledge of linear functional analysis I have tried to close this gap with my five part lecture notes the first three parts of which have been published in the Teubner Texte series by Teubner Verlag Leipzig 1976 1977 and 1978 The present English edition was translated from a completely rewritten manuscript which is significantly longer than the original version in the Teubner Texte series The material is organized in the following way Part I Fixed Point Theorems Part II Monotone Operators Part III Variational Methods and Optimization Parts IV jV Applications to Mathematical Physics The exposition is guided by the following considerations a What are the supporting basic ideas and what intrinsic interrelations exist between them 3 In what relation do the basic ideas stand to the known propositions of classical analysis and linear functional analysis y What typical applications are there VII Preface viii Special emphasis is placed on motivation Local Stability and Ultimate Boundedness in the Control of Robot Manipulators Marco A. Arteaga, Alejandro Gutiérrez-Giles, Javier Pliego-Jiménez, 2021-11-08 This book offers a unique compendium of the authors own research on the use of theoretical stability analysis showing how to take advantage of local stability design and ultimate boundedness for practical robot control It addresses researchers and postgraduate students dealing with control theory particularly with nonlinear systems Thanks to the numerous worked examples it could also be used as a textbook in postgraduate courses

H-infinity Control and Estimation of State-multiplicative Linear Systems Eli Gershon, Uri Shaked, Isaac Yaesh, 2005-06-24 Multiplicative noise appears in systems where the process or measurement noise levels depend on the system state vector Such systems are

relevant for example in radar measurements where larger ranges involve higher noise level This monograph embodies a comprehensive survey of the relevant literature with basic problems being formulated and solved by applying various techniques including game theory linear matrix inequalities and Lyapunov parameter dependent functions Topics covered include convex H_2 and H_∞ norms analysis of systems with multiplicative noise state feedback control and state estimation of systems with multiplicative noise dynamic and static output feedback of stochastic bilinear systems tracking controllers for stochastic bilinear systems utilizing preview information Various examples which demonstrate the applicability of the theory to practical control engineering problems are considered two such examples are taken from the aerospace and guidance control areas

An Invitation to Statistics in Wasserstein Space Victor M. Panaretos, Yoav Zemel, 2020-03-10 This open access book presents the key aspects of statistics in Wasserstein spaces i.e statistics in the space of probability measures when endowed with the geometry of optimal transportation Further to reviewing state of the art aspects it also provides an accessible introduction to the fundamentals of this current topic as well as an overview that will serve as an invitation and catalyst for further research Statistics in Wasserstein spaces represents an emerging topic in mathematical statistics situated at the interface between functional data analysis where the data are functions thus lying in infinite dimensional Hilbert space and non Euclidean statistics where the data satisfy nonlinear constraints thus lying on non Euclidean manifolds The Wasserstein space provides the natural mathematical formalism to describe data collections that are best modeled as random measures on Euclidean space e.g images and point processes Such random measures carry the infinite dimensional traits of functional data but are intrinsically nonlinear due to positivity and integrability restrictions Indeed their dominating statistical variation arises through random deformations of an underlying template a theme that is pursued in depth in this monograph

Nonlinear Time Series Randal Douc, Eric Moulines, David Stoffer, 2014-01-06 This text emphasizes nonlinear models for a course in time series analysis After introducing stochastic processes Markov chains Poisson processes and ARMA models the authors cover functional autoregressive ARCH threshold AR and discrete time series models as well as several complementary approaches They discuss the main limit theorems for Markov chains useful inequalities statistical techniques to infer model parameters and GLMs Moving on to HMM models the book examines filtering and smoothing parametric and nonparametric inference advanced particle filtering and numerical methods for inference

Finite Elements D.L. Dwyer, M.Y. Hussaini, R.G. Voigt, 2013-12-20 This volume covers the proceedings of the ICASE LaRC workshop on Finite Element Theory and Application held during July 28-30 1986 The purpose of this workshop was to provide an update on the status of finite element theory to assess the impact of this theory on practice and to suggest directions for future research There were thirteen participants in the workshop Some of them were leading mathematicians working on the finite element theory and the rest expert practitioners in the areas of fluid dynamics and structural analysis The first six articles in this volume provide a brief review of the theoretical and computational aspects of finite element

methods FEM The remaining seven articles deal with a variety of applications highlighting the type of results that are possible and indicating areas which deserve future research The first article is by Temam It provides an introduction and overview of the general finite element methods for the nonspecialist It also illustrates the power of finite element methods with two specific applications the free surface flow/structure interaction problem and the compressible Euler solution to the flow past a finite aspect ratio flat plate at incidence The second article by Brezzi is again an introduction and overview of mixed finite element methods It includes a brief discussion of special techniques for solving the discrete problem as well as some applications to certain basic problems in elasticity and hydrodynamics

3-D Shape Estimation and Image

Restoration Paolo Favaro, Stefano Soatto, 2007-03-12 Images contain information about the spatial properties of the scene they depict When coupled with suitable assumptions images can be used to infer the dimensional information For instance if the scene contains objects made with homogeneous material such as marble variations in image intensity can be associated with variations in shape and hence the shading in the image can be exploited to infer the shape of the scene shape from shading Similarly if the scene contains statistically regular structures variations in image intensity can be used to infer shape shape from textures Shading texture cast shadows including boundaries are all cues that can be exploited to infer spatial properties of the scene from a single image when the underlying assumptions are satisfied In addition one can obtain spatial cues from multiple images of the same scene taken with changing conditions For instance changes in the image due to a moving light source are used in photometric stereo changes in the image due to changes in the position of the cameras are used in stereo structure from motion and motion blur Finally changes in the image due to changes in the geometry of the camera are used in shape from defocus In this book we will concentrate on the latter two approaches motion blur and defocus which are referred to collectively as accommodation cues

The Mathematics of Networks of Linear Systems

Paul A. Fuhrmann, Uwe Helmke, 2015-05-26 This book provides the mathematical foundations of networks of linear control systems developed from an algebraic systems theory perspective This includes a thorough treatment of questions of controllability observability realization theory as well as feedback control and observer theory The potential of networks for linear systems in controlling large scale networks of interconnected dynamical systems could provide insight into a diversity of scientific and technological disciplines The scope of the book is quite extensive ranging from introductory material to advanced topics of current research making it a suitable reference for graduate students and researchers in the field of networks of linear systems Part I can be used as the basis for a first course in Algebraic System Theory while Part II serves for a second advanced course on linear systems Finally Part III which is largely independent of the previous parts is ideally suited for advanced research seminars aimed at preparing graduate students for independent research Mathematics of Networks of Linear Systems contains a large number of exercises and examples throughout the text making it suitable for graduate courses in the area

Discrete-Time High Order Neural Control Edgar N. Sanchez, Alma Y. Alanís, Alexander G.

Loukianov,2008-06-24 Neural networks have become a well established methodology as exemplified by their applications to identification and control of general nonlinear and complex systems the use of high order neural networks for modeling and learning has recently increased Usingneuralnetworks controlalgorithmscanbedevelopedtoberobustto uncertainties and modeling errors The most used NN structures are Feedforward networks and Recurrent networks The latter type offers a better suited tool to model and control of nonlinear systems There exist different training algorithms for neural networks which however normally encounter some technical problems such as local minima slow learning and high sensitivity to initial conditions among others As a viable alternative new training algorithms for example those based on Kalman filtering have been proposed There already exists publications about trajectory tracking using neural networks however most of those works were developed for continuous time systems On the other hand while extensive literature is available for linear discrete timecontrolsystem nonlinear discrete timecontroldesign techniques have not been discussed to the same degree Besides discrete time neural networks are better fitted for real time implementations Theoretical Numerical Analysis

Kendall Atkinson,Weimin Han,2007-06-07 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM

The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and to encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs **Scientific Computing** John A.

Trangenstein,2018-05-14 This is the second of three volumes providing a comprehensive presentation of the fundamentals of scientific computing This volume discusses more advanced topics than volume one and is largely not a prerequisite for volume three This book and its companions show how to determine the quality of computational results and how to measure the relative efficiency of competing methods Readers learn how to determine the maximum attainable accuracy of algorithms and how to select the best method for computing problems This book also discusses programming in several languages including C Fortran and MATLAB There are 49 examples 110 exercises 66 algorithms 24 interactive JavaScript programs 77 references to software programs and 1 case study Topics are introduced with goals literature references and links to public software There are descriptions of the current algorithms in LAPACK GSLIB and MATLAB This book could be used for a second course in numerical methods for either upper level undergraduates or first year graduate students Parts of the text

could be used for specialized courses such as nonlinear optimization or iterative linear algebra

Linear Multivariable Systems W. A. Wolovich, 2012-12-06 This text was developed over a three year period of time 1971 1973 from a variety of notes and references used in the presentation of a senior first year graduate level course in the Division of Engineering at Brown University titled Linear System Theory The intent of the course was not only to introduce students to the more modern state space approach to multivariable control system analysis and design as opposed to the classical frequency domain approach but also to draw analogies between the two approaches whenever and wherever possible It is therefore felt that the material presented will have broader appeal to practicing engineers than a text devoted exclusively to the state space approach It was assumed that students taking the course had also taken as a prerequisite an undergraduate course in classical control theory and also were familiar with certain standard linear algebraic notions as well as the theory of ordinary differential equations although a substantial effort was expended to make the material as self contained as possible In particular Chapter 2 is employed to familiarize the reader with a good deal of the mathematical material employed throughout the remainder of the text Chapters 3 through 5 were drawn in part from a number of contemporary state space and matrix algebraic references as well as some recent research of the author especially those portions which deal with polynomial matrices and the differential operator approach

Robust Control Farhad Assadian, Kevin R. Mallon, 2022-01-28 Robust Control Robust Control Youla Parameterization Approach Discover efficient methods for designing robust control systems In Robust Control Youla Parameterization Approach accomplished engineers Dr Farhad Assadian and Kevin R Mallon deliver an insightful treatment of robust control system design that does not require a theoretical background in controls The authors connect classical control theory to modern control concepts using the Youla method and offer practical examples from the automotive industry for designing control systems with the Youla method The book demonstrates that feedback control can be elegantly designed in the frequency domain using the Youla parameterization approach It offers deep insights into the many practical applications from utilizing this technique in both Single Input Single Output SISO and Multiple Input Multiple Output MIMO design Finally the book provides an estimation technique using Youla parameterization and controller output observer for the first time Robust Control offers readers A thorough introduction to a review of the Laplace Transform including singularity functions and transfer functions Comprehensive explorations of the response of linear time invariant and dynamic systems as well as feedback principles and feedback design for SISO Practical discussions of norms and feedback systems feedback design by the optimization of closed loop norms and estimation design for SISO using the parameterization approach In depth examinations of MIMO control and multivariable transfer function properties Perfect for industrial researchers and engineers working with control systems Robust Control Youla Parameterization Approach is also an indispensable resource for graduate students in mechanical aerospace electrical and chemical engineering

Nonlinear Industrial Control Systems Michael J. Grimble, Paweł Majecki, 2020-05-19 Nonlinear Industrial Control Systems presents a

range of mostly optimisation based methods for severely nonlinear systems it discusses feedforward and feedback control and tracking control systems design The plant models and design algorithms are provided in a MATLAB toolbox that enable both academic examples and industrial application studies to be repeated and evaluated taking into account practical application and implementation problems The text makes nonlinear control theory accessible to readers having only a background in linear systems and concentrates on real applications of nonlinear control It covers different ways of modelling nonlinear systems including state space polynomial based linear parameter varying state dependent and hybrid design techniques for nonlinear optimal control including generalised minimum variance model predictive control quadratic Gaussian factorised and H design methods design philosophies that are suitable for aerospace automotive marine process control energy systems robotics servo systems and manufacturing steps in design procedures that are illustrated in design studies to define cost functions and cope with problems such as disturbance rejection uncertainties and integral wind up and baseline non optimal control techniques such as nonlinear Smith predictors feedback linearization sliding mode control and nonlinear PID Nonlinear Industrial Control Systems is valuable to engineers in industry dealing with actual nonlinear systems It provides students with a comprehensive range of techniques and examples for solving real nonlinear control design problems *Principles and Procedures of Numerical Analysis* Ferenc Szidarovszky, Sidney J. Yakowitz, 1978

Optimization Techniques IFIP Technical Conference Conference on Optimization Techniques, 8th Conference on Optimization Techniques 1977, International Federation for Information Processing, 2013-12-01 *Optimal Spatial Interaction and the Gravity Model* Sven Svanhög, 2012-12-06 This book has grown out of a desire to explore the possibilities of using optimizing models in transportation planning This approach has been followed throughout Models which combine descriptive and optimizing elements are not treated The gravity model is here studied as the solution to an optimizing model In spite of this approach much of the material should be of general interest Algorithms are not discussed The author has benefited from discussions with many colleagues M Florian suggested the term interactivity N F Stewart and P Smeds gave many valuable comments on a first draft M Beckmann made me think once more about the final chapters R Grubbström and K Jörnsten helped clarifying some things in the same chapters Remaining insufficiencies are due to the author Gunnar Mannervik typed with great patience Linköping in October 1979 **ABSTRACT** The book proposes extended use of optimizing models in transportation planning An entropy constrained linear program for the trip distribution problem is formulated and shown to have the ordinary doubly constrained gravity model as its solution Entropy is here used as a measure of interactivity which is constrained to be at a prescribed level In this way the variation present in the reference trip matrix is preserved The properties of entropy as a dispersion measure are shortly discussed The detailed mathematics of the optimal solutions as well as of sensitivity and duality are given **Risk Management, Speculation, and Derivative Securities** Geoffrey Poitras, 2002-06-10 Presenting an integrated explanation of speculative trading and risk management

from the practitioner's point of view Risk Management Speculation and Derivative Securities is a standard text on financial risk management that departs from the perspective of an agent whose main concerns are pricing and hedging derivatives

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