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 die rolls. Then $Z = ab$. By independence, we know

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

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

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

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

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:

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

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Peter Wieland

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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 Vll Preface viii Special emphasis is placed on motivation

Numerical Methods for Linear Control Systems Biswa Datta,2004-02-24 Numerical Methods for Linear Control Systems Design and Analysis is an interdisciplinary textbook aimed at systematic descriptions and implementations of numerically viable algorithms based on well established efficient and stable modern numerical linear techniques for mathematical problems arising in the design and analysis of linear control systems both for the first and second order models Unique coverage of modern mathematical concepts such as parallel computations second order systems and large scale solutions Background material in linear algebra numerical linear algebra and control theory included in text Step by step explanations of the algorithms and examples **Handbook of Control Systems Engineering** Louis C. Westphal,2012-12-06 This book is a revision and extension of my 1995 Sourcebook of Control Systems Engineering Because of the extensions and other modifications it has been retitled Handbook of Control Systems Engineering which it is intended to be for its prime audience advanced undergraduate students beginning graduate students and practising engineers needing an understandable review of the field or recent developments which may prove useful There are several differences between this edition and the first Two new chapters on aspects of nonlinear systems have been incorporated In the first of these selected material for nonlinear systems is concentrated on four aspects showing the value of certain linear controllers arguing the suitability of algebraic linearization reviewing the semi classical methods of harmonic balance and introducing the nonlinear change of variable technique known as feedback linearization In the second chapter the topic of variable structure control often with sliding mode is introduced Another new chapter introduces discrete event systems including

several approaches to their analysis The chapters on robust control and intelligent control have been extensively revised Modest revisions and extensions have also been made to other chapters often to incorporate extensions to nonlinear systems

Model-Based Fault Diagnosis Techniques Steven X. Ding,2012-12-20 Guaranteeing a high system performance over a wide operating range is an important issue surrounding the design of automatic control systems with successively increasing complexity As a key technology in the search for a solution advanced fault detection and identification FDI is receiving considerable attention This book introduces basic model based FDI schemes advanced analysis and design algorithms and mathematical and control theoretic tools This second edition of Model Based Fault Diagnosis Techniques contains new material on fault isolation and identification and alarm management extended and revised treatment of systematic threshold determination for systems with both deterministic unknown inputs and stochastic noises addition of the continuously stirred tank heater as a representative process industrial benchmark and enhanced discussion of residual evaluation which now deals with stochastic processes Model based Fault Diagnosis Techniques will interest academic researchers working in fault identification and diagnosis and as a text it is suitable for graduate students in a formal university based course or as a self study aid for practising engineers working with automatic control or mechatronic systems from backgrounds as diverse as chemical process and power engineering *Energy, Environment and Economic Transformation in China* Shiyi Chen,2018-10-24 China has achieved rapid economic growth since the market oriented reform in 1978 and became the second largest economy in the world in 2010 However the growth model in China is still extensive in nature and may be characterized with high energy consumption and heavy environmental pollutions etc In fact China has successively become the largest carbon emitter since 2007 and the largest energy consumer since 2009 in the world This book endeavors to analyze whether such energy driven and environment restricted economic growth can be sustainable in China in the long run The book describes the basic situations of energy consumption and environmental pollution in China from the dimensions of industries regions and energy types It also introduces the evolution of energy and environmental policies implemented in China In particular this book makes use of the environmental activity analysis model to assess the sustainable transformation of economic model in Chinese industries and regions This model captures the negative externalities of pollutants and estimates the environmental total factor productivity accurately The possibilities of win win development and double dividend are also forecasted This book proposes new methods to measure the environmental total factor productivity evaluate the process of low carbon transformation quantify the structural bonus estimate the abating cost and forecast the win win development and so on Researchers may find these methodologies useful for measuring other pollutants and for analysis in other countries **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   *Financial Economics, Risk and Information* Marcelo Bianconi,2011-08-23 Financial Economics Risk and Information presents the fundamentals of finance in static and dynamic frameworks with focus on risk and information The objective of this book is to introduce undergraduate and first year graduate students to the methods and solutions of the main problems in finance theory relating to the economics of uncertainty and information The main goal of the second edition is to make the materials more accessible to a wider audience of students and finance professionals The focus is on developing a core body of theory that will provide the student with a solid intellectual foundation for more advanced topics and methods The new edition has streamlined chapters and topics with new sections on portfolio choice under alternative information structures The starting point is the traditional mean variance approach followed by portfolio choice from first principles The topics are extended to alternative market structures alternative contractual arrangements and agency dynamic stochastic general equilibrium in discrete and continuous time attitudes towards risk and towards inter temporal substitution in discrete and continuous time and option pricing In general the book presents a balanced introduction to the use of stochastic methods in discrete and continuous time in the field of financial economics   **Mathematical Optimization in Computer Graphics and Vision** Luiz Velho,Paulo Carvalho,Jonas Gomes,Luiz de Figueiredo,2011-08-09 Mathematical optimization is used in nearly all computer graphics applications from computer vision to animation This book teaches readers the core set of techniques that every computer graphics professional should understand in order to envision and expand the boundaries of what is possible in their work Study of this authoritative reference will help readers develop a very powerful tool the ability to create and decipher mathematical models that can better realize solutions to even the toughest problems confronting computer graphics community today Distills down a vast and complex world of information on optimization into one short self contained volume especially for computer graphics Helps CG professionals identify the best technique for solving particular problems quickly by categorizing the most effective algorithms by application Keeps readers current by supplementing the focus on key classic methods with special end of chapter sections on cutting edge developments   *Sourcebook Of Control Systems Engineering* Louis C. Westphal,2012-12-06 This book joins the multitude of Control Systems books now available but is neither a textbook nor a monograph Rather it may be described as a resource book or survey of the elements essentials of feedback control systems The material included is a result of my development over a period of several years of summaries written to supplement a number of standard textbooks for undergraduate and early post graduate courses Those notes plus more work than I care right now to contemplate are intended to be helpful both to students and to professional engineers Too often standard textbooks seem to overlook some of the engineering realities of roughly how much things cost or how big of hardware for computer programs for simple algorithms are sensing and

actuation of special systems such as PLCs and PID controllers of the engineering of real systems from coverage of SISO theories and of the special characteristics of computers their programming and their potential interactions into systems In particular students with specializations other than control systems are not being exposed to the breadth of the considerations needed in control systems engineering perhaps because it is assumed that they are always to be part of a multicourse sequence taken by specialists The lectures given to introduce at least some of these aspects were more effective when supported by written material hence the need for my notes which preceded this book   From Static to Dynamic Couplings in Consensus and Synchronization Among Identical and Non-Identical Systems Peter Wieland,2010 In a systems theoretic context the terms consensus and synchronization both describe the property that all individual systems in a group behave asymptotically identical i e output or state trajectories asymptotically converge to a common trajectory The objective of the present thesis is an improved understanding of some of the diverse coupling mechanisms leading to consensus and synchronization A starting point is the observation that classical consensus and synchronization results commonly deal with two distinct facets of the problem Consensus has regularly a strong focus on the interconnections and related constraints while synchronization typically addresses questions about complex individual dynamical systems Very few results exist that address both facets simultaneously A thorough analysis of static couplings in consensus algorithms provides explanations for this observation by unveiling limitations inherent to this type of couplings Novel dynamic coupling mechanisms are proposed to overcome these limitations These methods essentially rely on an internal model principle for consensus and synchronization derived in the thesis This principle provides necessary conditions for consensus and synchronization in groups of non identical systems and it establishes a link to the output regulation problem The fresh point of view revealed by this link eventually leads to a new hierarchical mechanism for consensus and synchronization among complex non identical systems with weak assumptions on the interconnections Applications include synchronization of linear systems and phase synchronization of nonlinear oscillators   Asynchronous Control for Networked Systems María Guinaldo Losada,Francisco Rodríguez Rubio,Sebastián Dormido Bencomo,2015-09-08 This book sheds light on networked control systems it describes different techniques for asynchronous control moving away from the periodic actions of classical control replacing them with state based decisions and reducing the frequency with which communication between subsystems is required The text focuses specially on event based control Split into two parts Asynchronous Control for Networked Systems begins by addressing the problems of single loop networked control systems laying out various solutions which include two alternative model based control schemes anticipatory and predictive and the use of H2 H robust control to deal with network delays and packet losses Results on self triggering and send on delta sampling are presented to reduce the need for feedback in the loop In Part II the authors present solutions for distributed estimation and control They deal first with reliable networks and then extend their results to scenarios in which delays and packet losses may occur The novel results presented in Asynchronous

Control for Networked Systems are transmitted in a concise and clear style supported by simulation and experimental examples Some applications are also provided Academic researchers and graduate students investigating control theory control engineering and computer communications systems can use this monograph to learn how asynchronous control helps tackle the problems of networked systems in centralized and distributed schemes Control practitioners at work in power systems vehicle coordination and traffic networks will also find this book helpful in improving the performance of their systems   Optimal Design of Flexural Systems G. I. N. Rozvany,2013-10-22 Optimal Design of Flexural Systems Beams Grillages Slabs Plates and Shells deals with the optimal design of flexural systems with emphasis on beams grillages slabs plates and shells Analytical methods plastic design plane systems and static problems are covered together with optimal solutions for all boundary conditions that may be of practical or theoretical interest Comprised of nine chapters this book begins with an introduction to the fundamental concepts of mechanics the calculus of variations and optimal design The next chapters discuss theories of optimal plastic design along with elastic and prestressed systems the theory of optimal flexure fields that give an absolute minimum statically admissible moment volume for plane systems and slabs and grillages optimized within various types of geometrical constraints The final chapter reviews experimental work and certain practical aspects of the optimization of flexural systems This monograph should be of interest to graduate students and research workers in structural engineering architectural science aerospace technology solid mechanics and applied mathematics as well as to practicing engineers and architects engaged in large scale projects   *Numerical Solution of Systems of Simultaneous Polynomial Equations* Stanford University. Systems Optimization Laboratory,A. N. Rosenberg,1983

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 H2 and H infinity 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   Mathematical Methods for Neural Network Analysis and Design Richard M. Golden,1996 For convenience many of the proofs of the key theorems have been rewritten so that the entire book uses a relatively uniform notion   **Mathematics for Dynamic Modeling** Edward Beltrami,2014-05-10 Mathematics for Dynamic Modeling provides an introduction to the mathematics of dynamical systems This book presents the mathematical

formulations in terms of linear and nonlinear differential equations Organized into two parts encompassing nine chapters this book begins with an overview of the notions of equilibrium and stability in differential equation modeling that occur in the guise of simple models in the plane This text then focuses on nonlinear models in which the limiting behavior of orbits can be more complicated Other chapters consider the problems that illustrate the concepts of equilibrium and stability limit cycles chaos and bifurcation This book discusses as well a variety of topics including cusp catastrophes strange attractors and reaction diffusion and shock phenomena The final chapter deals with models that are based on the notion of optimization This book is intended to be suitable for students in upper undergraduate and first year graduate course in mathematical modeling

Linear and Nonlinear Programming Essentials Tanushri Kaniyar,2025-02-20 Linear and Nonlinear Programming Essentials is a comprehensive textbook crafted for undergraduate students providing an in depth exploration of optimization theory and practice Designed to be both accessible and rigorous this book is an essential resource for students in mathematics computer science engineering economics and related fields We begin with an introduction to linear programming covering fundamental concepts such as linear programming models the simplex method duality theory and sensitivity analysis Building upon this foundation we delve into nonlinear programming exploring convex optimization gradient based methods and algorithms for solving nonlinear optimization problems Our emphasis on bridging theory with practice is a distinguishing feature Real world examples and case studies from fields like logistics finance and machine learning illustrate the practical relevance of optimization techniques providing tangible insights into their applications With clear explanations illustrative examples and engaging exercises we make the content suitable for students at all levels of expertise Whether you re encountering optimization for the first time or seeking to deepen your understanding of advanced techniques Linear and Nonlinear Programming Essentials offers a comprehensive and engaging journey into the world of optimization This book equips you with the tools to tackle optimization problems confidently and proficiently **Vertically Transmitted Diseases** Stavros Busenberg,Kenneth Cooke,2012-12-06 Infectious diseases are transmitted through various different mechanisms including person to person interactions by insect vectors and via vertical transmission from a parent to an unborn offspring The population dynamics of such disease transmission can be very complicated and the development of rational strategies for controlling and preventing the spread of these diseases requires careful modeling and analysis The book describes current methods for formulating models and analyzing the dynamics of the propagation of diseases which include vertical transmission as one of the mechanisms for their spread Generic models that describe broad classes of diseases as well as models that are tailored to the dynamics of a specific infection are formulated and analyzed The effects of incubation periods maturation delays and age structure interactions between disease transmission and demographic changes population crowding spatial spread chaotic dynamic behavior seasonal periodicities and discrete time interval events are studied within the context of specific disease transmission models No previous background in disease transmission modeling

and analysis is assumedand the required biological concepts and mathematical methods are gradually introduced within the context of specific disease transmission models Graphs are widely used to illustrate and explain the modeling assumptions and results REMARKS NOTE the authors have supplied variants on the promotion text that are more suitable for promotionin different fields by virtue of different emphasis in the content They are not enclosed but in the mathematics editorial

Linear and Nonlinear Functional Analysis with Applications Philippe G. Ciarlet,2013-10-10 This single volume textbook covers the fundamentals of linear and nonlinear functional analysis illustrating most of the basic theorems with numerous applications to linear and nonlinear partial differential equations and to selected topics from numerical analysis and optimization theory This book has pedagogical appeal because it features self contained and complete proofs of most of the theorems some of which are not always easy to locate in the literature or are difficult to reconstitute It also offers 401 problems and 52 figures plus historical notes and many original references that provide an idea of the genesis of the important results and it covers most of the core topics from functional analysis *Numerical Linear Algebra and Applications* Biswa Nath Datta,2010-02-04 An undergraduate textbook that highlights motivating applications and contains summary sections examples exercises online MATLAB codes and a MATLAB toolkit All the major topics of computational linear algebra are covered from basic concepts to advanced topics such as the quadratic eigenvalue problem in later chapters

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