

Chapter 7: CAPM

Some questions in this problem set are taken from the book *Investment Science* from Luenberger.

Question 1 (Capital Market Line):

1. (Capital market line) Assume that the expected rate of return on the market portfolio is 23% and the rate of return on T-bills (the risk-free rate) is 7%. The standard deviation of the market is 32%. Assume that the market portfolio is efficient.
- (a) What is the equation of the capital market line?
 - (b) (i) If an expected return of 39% is desired, what is the standard deviation of this position? (ii) If you have \$1,000 to invest, how should you allocate it to achieve the above position?
 - (c) If you invest \$300 in the risk-free asset and \$700 in the market portfolio, how much money should you expect to have at the end of the year?

(a) The capital market line is defined by:

$$\tilde{r}_i = E(r_i) = r_F + \frac{E(r_M) - r_F}{\sigma_M} \sigma_i = 0.07 + \frac{0.23 - 0.07}{0.32} \sigma_i$$

(b) (i)

$$0.39 = 0.07 + \frac{0.23 - 0.07}{0.32} \sigma_i \implies \sigma_i = \frac{0.32^2}{0.23 - 0.07} = 0.64$$

(ii)

$$\omega \times 0.07 + (1 - \omega) \times 0.23 = 0.39 \implies \omega = -1$$

$\implies$ Borrow \$1000 at the risk-free rate and invest \$2000 into the market

(c)

$$300 \times (1.07) + 700 \times (1.23) = 1182$$

Question 2 (A small world):

2. (A small world) Consider a world in which there are only two risky assets, A and B , and a risk-free asset F . The two risky assets are in equal supply in the market; that is, $M = \frac{1}{2}(A + B)$. The following information is known: $r_F = 10$, $\sigma_A^2 = 04$, $\sigma_{AB} = 01$, $\sigma_B^2 = 02$, and $\bar{r}_M = 18$.
- (a) Find a general expression (without substituting values) for σ_M^2 , β_A , and β_B .
 - (b) According to the CAPM, what are the numerical values of $\bar{r}_A$ and $\bar{r}_B$?

(a) We use the calculation rules for the covariance of a sum of random variables (<https://en.wikipedia.org/wiki/Covariance>)

Luenberger Chapter 7 Problem

Eli Gershon, Uri Shaked, Isaac Yaesh



Luenberger Chapter 7 Problem:

Observer Design for Nonlinear Systems Pauline Bernard, 2019-02-01 Observer Design for Nonlinear Systems deals with the design of observers for the large class of nonlinear continuous time models. It contains a unified overview of a broad range of general designs including the most recent results and their proofs such as the homogeneous and nonlinear Luenberger design techniques. The book starts from the observation that most observer designs consist in looking for a reversible change of coordinates transforming the expression of the system dynamics into some specific structures called normal forms for which an observer is known. Therefore the problem of observer design is broken down into three sub problems: What are the available normal forms and their associated observers? Under which conditions can a system be transformed into one of these forms and through which transformation? How can an inverse transformation that recovers an estimate in the given initial coordinates be achieved? This organisation allows the book to structure results within a united framework highlighting the importance of the choice of the observer coordinates for nonlinear systems. In particular the first part covers state affine forms with their Luenberger or Kalman designs and triangular forms with their homogeneous high gain designs. The second part addresses the transformation into linear forms through linearization by output injection or in the context of a nonlinear Luenberger design and into triangular forms under the well known uniform and differential observability assumptions. Finally the third part presents some recently developed methods for avoiding the numerically challenging inversion of the transformation. Observer Design for Nonlinear Systems addresses students and researchers looking for an introduction to or an overview of the state of the art in observer design for nonlinear continuous time dynamical systems. The book gathers the most important results focusing on a large and diffuse literature on general observer designs with global convergence and is a valuable source of information for academics and practitioners.

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. Linear and Nonlinear Programming David G. Luenberger, Yinyu Ye, 2021-10-31 The 5th edition of this classic textbook covers the central concepts of practical optimization techniques with an emphasis on

methods that are both state of the art and popular One major insight is the connection between the purely analytical character of an optimization problem and the behavior of algorithms used to solve that problem End of chapter exercises are provided for all chapters The material is organized into three separate parts Part I offers a self contained introduction to linear programming The presentation in this part is fairly conventional covering the main elements of the underlying theory of linear programming many of the most effective numerical algorithms and many of its important special applications Part II which is independent of Part I covers the theory of unconstrained optimization including both derivations of the appropriate optimality conditions and an introduction to basic algorithms This part of the book explores the general properties of algorithms and defines various notions of convergence In turn Part III extends the concepts developed in the second part to constrained optimization problems Except for a few isolated sections this part is also independent of Part I As such Parts II and III can easily be used without reading Part I and in fact the book has been used in this way at many universities New to this edition are popular topics in data science and machine learning such as the Markov Decision Process Farkas lemma convergence speed analysis duality theories and applications various first order methods stochastic gradient method mirror descent method Frank Wolf method ALM ADMM method interior trust region method for non convex optimization distributionally robust optimization online linear programming semidefinite programming for sensor network localization and infeasibility detection for nonlinear optimization

Geophysical Inverse Theory Robert L. Parker, 1994-06-05 In many physical sciences the most natural description of a system is with a function of position or time In principle infinitely many numbers are needed to specify that function but in practice only finitely many measurements can be made Inverse theory concerns the mathematical techniques that enable researchers to use the available information to build a model of the unknown system or to determine its essential properties In *Geophysical Inverse Theory* Robert Parker provides a systematic development of inverse theory at the graduate and professional level that emphasizes a rigorous yet practical solution of inverse problems with examples from experimental observations in geomagnetism seismology gravity electromagnetic sounding and interpolation Although illustrated with examples from geophysics this book has broad implications for researchers in applied disciplines from materials science and engineering to astrophysics oceanography and meteorology Parker's approach is to avoid artificial statistical constructs and to emphasize instead the reasonable assumptions researchers must make to reduce the ambiguity that inevitably arises in complex problems The structure of the book follows a natural division in the subject into linear theory in which the measured quantities are linear functionals of the unknown models and nonlinear theory which covers all other systems but is not nearly so well understood The book covers model selection as well as techniques for drawing firm conclusions about the earth independent of any particular model

Financial Economics, Risk And Information (2nd Edition) Marcelo Bianconi, 2011-11-29 *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

Introduction to Optimization Methods P. Aaby, 2013-03-09 During the last decade the techniques of non linear optimization have emerged as an important subject for study and research The increasingly widespread application of optimization has been stimulated by the availability of digital computers and the necessity of using them in the investigation of large systems This book is an introduction to non linear methods of optimization and is suitable for undergraduate and post graduate courses in mathematics the physical and social sciences and engineering The first half of the book covers the basic optimization techniques including linear search methods steepest descent least squares and the Newton Raphson method These are described in detail with worked numerical examples since they form the basis from which advanced methods are derived Since 1965 advanced methods of unconstrained and constrained optimization have been developed to utilise the computational power of the digital computer The second half of the book describes fully important algorithms in current use such as variable metric methods for unconstrained problems and penalty function methods for constrained problems Recent work much of which has not yet been widely applied is reviewed and compared with currently popular techniques under a few generic main headings vi PREFACE Chapter I describes the optimization problem in mathematical form and defines the terminology used in the remainder of the book Chapter 2 is concerned with single variable optimization The main algorithms of both search and approximation methods are developed in detail since they are an essential part of many multi variable methods

Control and Filtering for Semi-Markovian Jump Systems Fanbiao Li, Peng Shi, Ligang Wu, 2016-11-04 This book presents up to date research developments and novel methodologies on semi Markovian jump systems S MJS It presents solutions to a series of problems with new approaches for the control and filtering of S MJS including stability analysis sliding mode control dynamic output feedback control robust filter design and fault detection A set of newly developed techniques such as piecewise analysis method positively invariant set approach event triggered method and cone complementary linearization approaches are presented Control and Filtering for Semi Markovian Jump Systems is a comprehensive reference for researcher and

practitioners working in control engineering system sciences and applied mathematics and is also a useful source of information for senior undergraduates and graduates in these areas The readers will benefit from some new concepts new models and new methodologies with practical significance in control engineering and signal processing **Data**

Transportation and Protection John E. Hershey, Rao K. Yarlagadda, 2012-12-06 A new breed of engineer is developing in our contemporary society These engineers are concerned with communications and computers economics and regulation These new engineers apply themselves to data to its pack aging transmission and protection They are data engineers Formal curricula do not yet exist for their dedicated development Rather they learn most of their tools on the job and their roots are in computer engineering communications engineering and applied mathematics There is a need to draw relevant material together and present it so that those who wish to become data engineers can do so for the betterment of themselves their employer their country and ultimately the world for we share the belief that the most effective tool for world peace and stability is neither politics nor armaments but rather the open and timely exchange of information This book has been written with that goal in mind Today numerous signs encourage us to expect broader information exchange in the years to come The movement toward a true Integrated Services Digital Network ISDN is perhaps the clearest of these Also the development of formal protocol layers reflects both a great deal of brilliance and compromise and also the desire for a common language among data engineers

Optimal Control for Chemical Engineers Simant Ranjan Upreti, 2016-04-19 This self contained book gives a detailed treatment of optimal control theory that enables readers to formulate and solve optimal control problems With a strong emphasis on problem solving it provides all the necessary mathematical analyses and derivations of important results including multiplier theorems and Pontryagin's principle The text presents various examples and basic concepts of optimal control and describes important numerical methods and computational algorithms for solving a wide range of optimal control problems including periodic processes [Introduction to Mathematical Economics](#) M.C. Kemp, Y.

Kimura, 2012-12-06 Our objectives may be briefly stated They are two First we have sought to provide a compact and digestible exposition of some sub branches of mathematics which are of interest to economists but which are underplayed in mathematical texts and dispersed in the journal literature Second we have sought to demonstrate the usefulness of the mathematics by providing a systematic account of modern neoclassical economics that is of those parts of economics from which jointness in production has been excluded The book is introductory not in the sense that it can be read by any high school graduate but in the sense that it provides some of the mathematics needed to appreciate modern general equilibrium economic theory It is aimed primarily at first year graduate students and final year honors students in economics who have studied mathematics at the university level for two years and who in particular have mastered a full year course in analysis and calculus The book is the outcome of a long correspondence punctuated by periodic visits by Kimura to the University of New South Wales Without those visits we would never have finished They were made possible by generous grants from the

Leverhulme Foundation Nagoya City University and the University of New South Wales Equally indispensable were the expert advice and generous encouragement of our friends Martin Beckmann Takashi Negishi Ryuzo Sato and Yasuo Uekawa

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