Week 7: Luenberger, Chapter 13

Perpetual put. Consider a perpetual American put option with strike price K on a stock ... For valuation purposes it will be advantageous to consider the put. Let G be the largest stock price ... The time-independent Black-Scholes equation becomes

$$\frac{1}{2}\sigma^2 S^2 P''(S) + rSP'(S) - rP(S) = 0$$

for $G \le S \le \infty$. The appropriate boundary conditions are $P(\infty) = 0$ and $P(G) = K - G$. G should be chosen to maximize the value of the option.

a. Show that $P(S)$ has the form

$$P(S) = aS + bS^{-\gamma}$$

where $\gamma = 2r/\sigma^2$.

b. Use the two boundary conditions to show that

$$P(S) = (K - G)(S/G)^{-\gamma}$$

c. Finally choose G to maximize $P(S)$ to conclude that

$$P(S) = \frac{K}{1+\gamma}\left[\frac{(1+\gamma)S}{\gamma K}\right]^{-\gamma}$$

(a) Consider the Black-Scholes equation from Eq. 13.?:

$$\frac{\partial P}{\partial t} + rS\frac{\partial P}{\partial S} + \frac{1}{2}\sigma^2 S^2\frac{\partial^2 P}{\partial S^2} = rP$$

Because the put is perpetual, the value does not depend on time. Respectively, $\frac{\partial P}{\partial t} = 0$. Considering this and denoting $P(S)$ as the value of the put, the Black-Scholes equation simplifies to Eq. 13.?:

$$rSP'(S) + \frac{1}{2}\sigma^2 S^2 P''(S) - rP(S) = 0$$

This is a homogeneous second-order linear differential equation. We will use this fact from the theory of ODE. First, if we know two particular solutions to this equation, a

Luenberger Chapter Exercise 1

JS Bruner

Luenberger Chapter Exercise 1:

Control Theory for Linear Systems Harry L. Trentelman,Anton A. Stoorvogel,Malo Hautus,2012-12-06 Control Theory for Linear Systems deals with the mathematical theory of feedback control of linear systems It treats a wide range of control synthesis problems for linear state space systems with inputs and outputs The book provides a treatment of these problems using state space methods often with a geometric flavour Its subject matter ranges from controllability and observability stabilization disturbance decoupling and tracking and regulation to linear quadratic regulation H2 and H infinity control and robust stabilization Each chapter of the book contains a series of exercises intended to increase the reader s understanding of the material Often these exercises generalize and extend the material treated in the regular text **Observers in Control Systems** George Ellis,2002-10-16 Observers are digital algorithms that combine sensor outputs with knowledge of the system to provide results superior to traditional structures which rely wholly on sensors Observers have been used in selected industries for years but most books explain them with complex mathematics Observers in Control Systems uses intuitive discussion software experiments and supporting analysis to explain the advantages and disadvantages of observers If you are working in controls and want to improve your control systems observers could be the technology you need and this book will give you a clear thorough explanation of how they work and how to use them Control systems and devices have become the most essential part of nearly all mechanical systems machines devices and manufacturing systems throughout the world Increasingly the efficiency of production the reliability of output and increased energy savings are a direct result of the quality and deployment of the control system A modern and essential tool within the engineer s kit is the Observer which helps improve the performance and reduce the cost of these systems George Ellis is the author of the highly successful Control System Design Guide Second Edition Unlike most controls books which are written by control theorists and academics Ellis is a leading engineer designer author and lecturer working in industry directly with the users of industrial motion control systems Observers in Control Systems is written for all professional engineers and is designed to be utilized without an in depth background in control theory This is a real world book which will demonstrate how observers work and how they can improve your control system It also shows how observers operate when conditions are not ideal and teaches the reader how to quickly tune an observer in a working system Software Available online A free updated and enhanced version of the author s popular Visual ModelQ allows the reader to practice the concepts with Visual ModelQ models on a PC Based on a virtual laboratory all key topics are demonstrated with more than twenty control system models The models are written in Visual ModelQ and are available on the Internet to every reader with a PC Teaches observers and Kalman filters from an intuitive perspective Explains how to reduce control system susceptibility to noise Shows how to design an adaptive controller based on estimating parameter variation using observers Shows how to improve a control system s ability to reject disturbances Key topics are demonstrated with PC based models of control systems The models are written in both MatLab and ModelQ models are available free of charge **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 *Probability, Random Processes, and Ergodic Properties* Robert M. Gray,2009-07-31 Probability Random Processes and Ergodic Properties is for mathematically inclined information communication theorists and people working in signal processing It will also interest those working with random or stochastic processes including mathematicians statisticians and economists Highlights Complete tour of book and guidelines for use given in Introduction so readers can see at a glance the topics of interest Structures mathematics for an engineering audience with emphasis on engineering applications New in the Second Edition Much of the material has been rearranged and revised for pedagogical reasons The original first chapter has been split in order to allow a more thorough treatment of basic probability before tackling random processes and dynamical systems The final chapter has been broken into two pieces to provide separate emphasis on process metrics and the ergodic decomposition of affine functionals Many classic inequalities are now incorporated into the text along with proofs and many citations have been added Elementary Convexity with Optimization Vivek S. Borkar,K. S. Mallikarjuna Rao,2023-06-26 This book develops the concepts of fundamental convex analysis and optimization by using advanced calculus and real analysis Brief accounts of advanced calculus and real analysis are included within the book The emphasis is on building a geometric intuition for the subject which is aided further by supporting figures Two distinguishing features of this book are the use of elementary alternative proofs of many results and an eclectic collection of useful concepts from optimization and convexity often needed by researchers in optimization game theory control theory and mathematical economics A full chapter on optimization algorithms gives an overview of the field touching upon many current themes The book is useful to advanced undergraduate and graduate students as well as researchers in the fields mentioned above and in various engineering disciplines Topics in Approximation Theory Harold S. Shapiro,2006-11-15 *Optimization for Chemical and Biochemical Engineering* Vassilios S. Vassiliadis,E. Antonio del Rio Chanona,Walter Kähm,Ye Yuan,2021-01-14 Optimization for Chemical and Biochemical Engineering Theory Algorithms Modeling and Applications Information Science David G. Luenberger,2012-01-12 From cell phones to Web portals advances in information and communications technology have thrust society into an information age that is far reaching fast moving increasingly complex and yet essential to modern life Now renowned scholar and author David Luenberger has produced Information Science a text that distills and explains the most important concepts and insights at the core of this ongoing revolution The book represents the material used in a widely acclaimed course offered at Stanford University Drawing concepts from each of the constituent subfields that collectively comprise information science Luenberger builds his book around the five E s of information Entropy Economics Encryption Extraction and Emission Each area directly impacts modern information products services and technology everything from word processors to digital cash database systems to decision making marketing strategy to spread spectrum communication To study these principles is to learn how English text music and pictures can be compressed how it is possible to construct a digital signature that cannot simply be copied how beautiful photographs can be sent from distant planets with a tiny battery how communication networks expand and how producers of information products can make a profit under difficult market conditions The book contains vivid examples illustrations exercises and points of historic interest all of which bring to life the analytic methods presented Presents a unified approach to the field of information science Emphasizes basic principles Includes a wide range of examples and applications Helps students develop important new skills Suggests exercises with solutions in an instructor s manual Numerical Methods in Finance Paolo Brandimarte,2003-09-29 Balanced coverage of the methodology and theory of numerical methods in finance Numerical Methods in Finance bridges the gap between financial theory and computational practice while helping students and practitioners exploit MATLAB for financial applications Paolo Brandimarte covers the basics of finance and numerical analysis and provides background material that suits the needs of students from both financial engineering and economics perspectives Classical numerical analysis methods optimization including less familiar topics such as stochastic and integer programming simulation including low discrepancy sequences and partial differential equations are covered in detail Extensive illustrative examples of the application of all of these methodologies are also provided The text is primarily focused on MATLAB based application but also includes descriptions of other readily available toolboxes that are relevant to finance Helpful appendices on the basics of MATLAB and probability theory round out this balanced coverage Accessible for students yet still a useful reference for practitioners Numerical Methods in Finance offers an expert introduction to powerful tools in finance 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 Mono- and Multivariable Control and Estimation Eric Ostertag,2011-01-03 This book presents the various design methods of a state feedback control law and of an observer The considered systems are of continuous time and of discrete time nature monovariable or multivariable the last ones being of main consideration Three different approaches are described Linear design methods with an emphasis on decoupling strategies and a general formula for multivariable controller or observer design Quadratic optimization methods Linear Quadratic Control LQC optimal Kalman filtering Linear Quadratic Gaussian LQG control Linear matrix inequalities LMIs to solve linear and quadratic problems The duality between control and observation is taken to advantage and extended up to the mathematical domain A large number of exercises all given with their detailed solutions mostly obtained with MATLAB reinforce and exemplify the practical orientation of this book The programs created by the author for their solving are available on the Internet sites of Springer and of MathWorks for downloading This book is targeted at students of Engineering Schools or Universities at the Master s level at engineers desiring to design and implement innovative control methods and at researchers **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 *Convex Optimization* Stephen Boyd,Lieven Vandenberghe,2004-03-08 Convex optimization problems arise frequently in many different fields This book provides a comprehensive introduction to the subject and shows in detail how such problems can be solved numerically with great efficiency The book begins with the basic elements of convex sets and functions and then describes various classes of convex optimization problems Duality and approximation techniques are then covered as are statistical estimation techniques Various geometrical problems are then presented and there is detailed discussion of unconstrained and constrained minimization problems and interior point methods The focus of the book is on recognizing convex optimization problems and then finding the most appropriate technique for solving them It contains many worked examples and homework exercises and will appeal to students researchers and practitioners in fields such as engineering computer science mathematics statistics finance and economics *Introduction to Nonlinear Control* Christopher M. Kellett,Philipp Braun,2023-06-27 This will be the first textbook on nonlinear control at the upper undergraduate level reflecting the many updates in the field that have occurred since the 1990s Nonlinear control is a control engineering course usually taught at the graduate level and preceded by a full semester course on nonlinear systems analysis yet as the authors of this textbook argue these tools and techniques are accessible to an undergraduate audience and practicing engineers if presented in the right way This book is class tested growing out of a third year undergraduate course on nonlinear control and estimation for mechatronics mechanical and electrical engineering and mathematics students at the University of Newcastle Australia It is part of a trend toward reimagining the content of undergraduate control engineering curricula to render widely used tools and techniques accessible to students much earlier in their education opening them up to those who will not go on to the graduate level This alternative course sequence currently begins with the text Feedback Systems An Introduction for Scientists and Engineers by Astr m and Murray PUP 2008 this new project is designed to follow Astr m and Murray in the undergraduate sequence as a second or third year course **Linear Systems and Optimal Control** Charles K. Chui,Guanrong Chen,2012-12-06 A knowledge of linear systems provides a firm foundation for the study of optimal control theory and many areas of system theory and signal processing State space techniques developed since the early sixties have been proved to be very effective The main objective of this book is to present a brief and somewhat complete investigation on the theory of linear systems with emphasis on these techniques in both continuous time and discrete time settings and to demonstrate an application to the study of elementary linear and nonlinear optimal control theory An essential feature of the state space approach is that both time varying and time invariant systems are treated systematically When time varying systems are considered another important subject that depends very much on the state space formulation is perhaps real time filtering prediction and smoothing via the Kalman filter This subject is treated in our monograph entitled Kalman Filtering with Real Time Applications published in this Springer Series in Information Sciences Volume 17 For time invariant systems the recent frequency domain approaches using the techniques of Adamjan Arov and Krein also known as AAK balanced realization and oo H theory via Nevanlinna Pick interpolation seem very promising and this will be studied in our forthcoming monograph entitled Mathematical Ap proach to Signal Processing and System Theory The present elementary treatise on linear system theory should provide enough engineering and mathe of these two subjects 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 *Dynamic Economic Analysis* Milton Harris,1987 In industrial organization and labour economics many of the most interesting recent contributions have encompassed explicit dynamics as well as extensive form games This book collects and explains a number of the most widely used techniques in dynamic economic analysis Introduction to Optimum Design Jasbir Singh Arora,2016-04-05 Introduction to Optimum Design Fourth Edition carries on the tradition of the most widely used textbook in engineering optimization and optimum design courses It is intended for use in a first course on engineering design and optimization at the undergraduate or graduate level in engineering departments of all disciplines with a primary focus on mechanical aerospace and civil engineering courses Through a basic and organized approach the text describes engineering design optimization in a rigorous yet simplified manner illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems Formulation of a design problem as an optimization problem is emphasized and illustrated throughout the text using Excel and MATLAB as learning and teaching aids This fourth edition has been reorganized rewritten in parts and enhanced with new material making the book even more appealing to instructors regardless of course level Includes basic concepts of optimality conditions and numerical methods that are described with simple and practical examples making the material highly teachable and learnable Presents applications of optimization methods for structural mechanical aerospace and industrial engineering problems Provides practical design examples that introduce students to the use of optimization methods early in the book Contains chapter on several advanced optimum design topics that serve the needs of instructors who teach more advanced courses An Introduction to Natural Computation Dana H. Ballard,1999-01-22 This book provides a comprehensive introduction to the computational material that forms the underpinnings of the currently evolving set of brain models It is now clear that the brain is unlikely to be understood without recourse to computational theories The theme of An Introduction to Natural Computation is that ideas from diverse areas such as neuroscience information theory and optimization theory have recently been extended in ways that make them useful for describing the brains programs This book provides a comprehensive introduction to the computational material that forms the underpinnings of the currently evolving set of brain models It stresses the broad spectrum of learning models ranging from neural network learning through reinforcement learning to genetic learning and situates the various models in their appropriate neural context To write about models of the brain before the brain is fully understood is a delicate matter

Very detailed models of the neural circuitry risk losing track of the task the brain is trying to solve At the other extreme models that represent cognitive constructs can be so abstract that they lose all relationship to neurobiology An Introduction to Natural Computation takes the middle ground and stresses the computational task while staying near the neurobiology

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 Thedevelopmentofnewcoursesisanaturalconsequenceofahighlevelof 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

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