

CHAPTER 3

Hedging Strategies Using Futures

Practice Questions

3.1

A perfect hedge is one that completely eliminates the hedger's risk. A perfect hedge does not always lead to a better outcome than an imperfect hedge. It just leads to a more certain outcome. Consider a company that hedges its exposure to the price of an asset. Suppose the asset's price movements prove to be favorable to the company. A perfect hedge totally neutralizes the company's gain from these favorable price movements. An imperfect hedge, which only partially neutralizes the gains, might well give a better outcome.

3.2

A minimum variance hedge leads to no hedging when the coefficient of correlation between the futures price changes and changes in the price of the asset being hedged is zero.

3.3

The optimal hedge ratio is

$$0.8 \times \frac{0.65}{0.81} = 0.642$$

This means that the size of the futures position should be 64.2% of the size of the company's exposure in a three-month hedge.

3.4

The formula for the number of contracts that should be shorted gives

$$1.2 \times \frac{20,000,000}{1,080 \times 250} = 88.9$$

Rounding to the nearest whole number, 89 contracts should be shorted. To reduce the beta to 0.6, half of this position, or a short position in 44 contracts, is required.

3.5

A good rule of thumb is to choose a futures contract that has a delivery month as close as possible to, but later than, the month containing the expiration of the hedge. The contracts that should be used are therefore,

- (a) July
- (b) September
- (c) March

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Xiaoge Gregory Zhang



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Constraint Reasoning for Differential Models Jorge Cruz, 2005 Focuses on the integration of ordinary differential equations within the interval constraints framework which for this purpose is extended with the formalism of Constraint Satisfaction Differential Problems Such a framework allows the specification of ordinary differential equations by means of constraints

Optimization Methods in Operations Research and Systems Analysis K V Mital, 1996 The Mathematical Aspects Of Operations Research And Systems Analysis Concerned With Optimization Of Objectives Form The Subject Of This Book In Its Revised Updated And Enlarged Third Edition Discussion On Linear Programming Has Been Expanded And Recast With Greater Emphasis On Duality Theory Sensitivity Analysis Parametric Programming Multiobjective And Goal Programming And Formulation And Solution Of Practical Problems Chapters On Nonlinear Programming Include Integer Programming Kuhn Tucker Theory Separable And Quadratic Programming Dynamic Programming Geometric Programming And Direct Search And Gradient Methods A Chapter On Theory Of Games Is Also Included A Short Note On Karmarkars Projective Algorithm Is Given In The Appendix The Book Keeps In View The Needs Of The Student Taking A Regular Course In Operations Research Or Mathematical Programming And Also Of Research Scholars In Other Disciplines Who Have A Limited Objective Of Learning The Practical Aspects Of Various Optimization Methods To Solve Their Special Problems For The Former Illustrative Solved Examples And Unsolved Examples At The End Of Each Chapter Small Enough To Be Solved By Hand Would Be Of Greater Interest While For He Latter Summaries Of Computational Algorithms For Various Methods Which Would Help Him To Write Computer Programmes To Solve Larger Problems Would Be More Helpful A Few Computer Programmes In Fortran Iv Have Also Been Given In The Appendix

Utility Maximization in Nonconvex Wireless Systems Johannes Brehmer, 2012-03-15 This monograph develops a framework for modeling and solving utility maximization problems in nonconvex wireless systems The first part develops a model for utility optimization in wireless systems The model is general enough to encompass a wide array of system configurations and performance objectives Based on the general model a set of methods for solving utility maximization problems is developed in the second part of the book The development is based on a careful examination of the properties that are required for the application of each method This part focuses on problems whose initial formulation does not allow for a solution by standard methods and discusses alternative approaches The last part presents two case studies to demonstrate the application of the proposed framework In both cases utility maximization in multi antenna broadcast channels is investigated

Handbook of Mathematical Fluid Dynamics S. Friedlander, D. Serre, 2003-03-27 The Handbook of Mathematical Fluid Dynamics is a compendium of essays that provides a survey of the major topics in the subject Each article traces developments surveys the results of the past decade discusses the current state of knowledge and presents major future directions and open problems Extensive bibliographic material is provided The book is intended to be useful both to experts in the field and to mathematicians and other scientists who wish to

learn about or begin research in mathematical fluid dynamics The Handbook illuminates an exciting subject that involves rigorous mathematical theory applied to an important physical problem namely the motion of fluids **Introduction to the Theory of Games** J. C. C. McKinsey, 2012-11-14 This comprehensive overview of the mathematical theory of games illustrates applications to situations involving conflicts of interest including economic social political and military contexts Advanced calculus a prerequisite Includes 51 figures and 8 tables 1952 edition *Practical Bilevel Optimization* Jonathan F. Bard, 2013-03-09 The use of optimization techniques has become integral to the design and analysis of most industrial and socio economic systems Great strides have been made recently in the solution of large scale problems arising in such areas as production planning airline scheduling government regulation and engineering design to name a few Analysts have found however that standard mathematical programming models are often inadequate in these situations because more than a single objective function and a single decision maker are involved Multiple objective programming deals with the extension of optimization techniques to account for several objective functions while game theory deals with the inter personal dynamics surrounding conflict Bilevel programming the focus of this book is in a narrow sense the combination of the two It addresses the problem in which two decision makers each with their individual objectives act and react in a noncooperative sequential manner The actions of one affect the choices and payoffs available to the other but neither player can completely dominate the other in the traditional sense *Stochastic Volatility in Financial Markets* Antonio Mele, Fabio Fornari, 2012-12-06 Stochastic Volatility in Financial Markets presents advanced topics in financial econometrics and theoretical finance and is divided into three main parts The first part aims at documenting an empirical regularity of financial price changes the occurrence of sudden and persistent changes of financial markets volatility This phenomenon technically termed stochastic volatility or conditional heteroskedasticity has been well known for at least 20 years in this part further useful theoretical properties of conditionally heteroskedastic models are uncovered The second part goes beyond the statistical aspects of stochastic volatility models it constructs and uses new fully articulated theoretically sounded financial asset pricing models that allow for the presence of conditional heteroskedasticity The third part shows how the inclusion of the statistical aspects of stochastic volatility in a rigorous economic scheme can be faced from an empirical standpoint **A Political Solution** , *Efficient Methods for Valuing Interest Rate Derivatives* Antoon Pelsser, 2013-03-09 Efficient Methods for Valuing Interest Rate Derivatives provides an overview of the models that can be used for valuing and managing interest rate derivatives Split into two parts the first discusses and compares the traditional models such as spot and forward rate models while the second concentrates on the more recently developed Market models Unlike most of his competitors the author s focus is not only on the mathematics Antoon Pelsser draws on his experience in industry to explore the practical issues such as the implementation of models and model selection Aimed at people with a solid quantitative background this book will be of particular interest to risk managers interest rate derivative traders quantitative researchers portfolio and

fund managers and students of mathematics and economics but it will also prove invaluable to anyone looking for a good overview of interest rate derivative modelling *Equine Wound Management* Ted S. Stashak, Christine Theoret, 2011-11-16 *Equine Wound Management* Second Edition is a comprehensive authoritative resource for both theoretical and practical information on the care of wounds in horses Now highly illustrated with full color photographs throughout this long awaited second edition is significantly expanded to include new developments and techniques in wound healing *Equine Wound Management* is an essential reference for veterinary students veterinary surgeons veterinary dermatologists and equine and large animal veterinarians *Production Planning by Mixed Integer Programming* Yves Pochet, Laurence A.

Wolsey, 2006-04-19 This textbook provides a comprehensive modeling reformulation and optimization approach for solving production planning and supply chain planning problems covering topics from a basic introduction to planning systems mixed integer programming MIP models and algorithms through the advanced description of mathematical results in polyhedral combinatorics required to solve these problems Based on twenty years worth of research in which the authors have played a significant role the book addresses real life industrial production planning problems involving complex production structures with multiple production stages using MIP modeling and reformulation approach The book provides an introduction to MIP modeling and to planning systems a unique collection of reformulation results and an easy to use problem solving library This approach is demonstrated through a series of real life case studies exercises and detailed illustrations Review by Jakub Marecek Computer Journal The emphasis put on mixed integer rounding and mixing sets heuristics in built in general purpose integer programming solvers as well as on decompositions and heuristics using integer programming should be praised There is no doubt that this volume offers the present best introduction to integer programming formulations of lotsizing problems encountered in production planning 2007 **Introduction to Derivative-Free Optimization** Andrew R.

Conn, Katya Scheinberg, Luis N. Vicente, 2009-04-16 The first contemporary comprehensive treatment of optimization without derivatives This text explains how sampling and model techniques are used in derivative free methods and how they are designed to solve optimization problems It is designed to be readily accessible to both researchers and those with a modest background in computational mathematics **Logic-Based 0-1 Constraint Programming** Peter Barth, 2012-12-06 A logic view of 0 1 integer programming problems providing new insights into the structure of problems that can lead the researcher to more effective solution techniques depending on the problem class Operations research techniques are integrated into a logic programming environment The first monographic treatment that begins to unify these two methodological approaches Logic based methods for modelling and solving combinatorial problems have recently started to play a significant role in both theory and practice The application of logic to combinatorial problems has a dual aspect On one hand constraint logic programming allows one to declaratively model combinatorial problems over an appropriate constraint domain the problems then being solved by a corresponding constraint solver Besides being a high level declarative interface to the constraint

solver the logic programming language allows one also to implement those subproblems that cannot be naturally expressed with constraints On the other hand logic based methods can be used as a constraint solving technique within a constraint solver for combinatorial problems modelled as 0 1 integer programs

English Mechanic and Mirror of Science and Art, 1905 English Mechanic and Mirror of Science, 1882 Numerical Solution of Ordinary Differential Equations L.F. Shampine, 2018-10-24 This new work is an introduction to the numerical solution of the initial value problem for a system of ordinary differential equations The first three chapters are general in nature and chapters 4 through 8 derive the basic numerical methods prove their convergence study their stability and consider how to implement them effectively The book focuses on the most important methods in practice and develops them fully uses examples throughout and emphasizes practical problem solving methods

Real Options Valuation Marcus Schulmerich, 2005-12-08 Managerial decision making during the lifetime of a project can have important implications on project handling and its contribution to shareholder value Traditional capital budgeting methods in particular methods based on net present value fail to capture the role of managerial degrees of freedom and therefore tend to lead to a systematic undervaluation of the project In contrast the real options approach to investment analysis characterizes decision making flexibility in terms of real option rights which can be evaluated analogously to financial options using contingent claims pricing techniques widely used in capital markets The research carried out by Marcus Schulmerich analyzes real options for constant and stochastic interest rates versus constant interest rates Analyzing stochastic interest rates in the context of real options valuation is of particular relevance given their long time to maturity which makes them more vulnerable to interest rate risk than short term financial options To date there has not been a comprehensive review of this issue in the academic literature The fact that interest rates have fluctuated widely over the recent years further highlights the need for studying this issue

Corrosion and Electrochemistry of Zinc Xiaoge Gregory Zhang, 2013-06-29 Humankind's use of zinc stretches back to antiquity and it was a component in some of the earliest known alloy systems Even though metallic zinc was not discovered in Europe until 1746 by Marggrat zinc ores were used for making brass in biblical times and an 87% zinc alloy was found in prehistoric ruins in Transylvania Also zinc the metal was produced in quantity in India as far back as the thirteenth century well before it was recognized as being a separate element The uses of zinc are manifold ranging from galvanizing to die castings to electronics It is a preferred anode material in high energy density batteries e.g. Ni-Zn, Ag-Zn, Zn-Air so that its electrochemistry particularly in alkaline media has been extensively explored In the passive state zinc is photoelectrochemically active with the passive film displaying n-type characteristics For the same reason that zinc is considered to be an excellent battery anode it has found extensive use as a sacrificial anode for the protection of ships and pipelines from corrosion Indeed aside from zinc's well known attributes as an alloying element its widespread use is principally due to its electrochemical properties which include a well placed position in the galvanic series for protecting iron and steel in natural aqueous environments and

its reversible dissolution behavior in alkaline solutions

Minimax Under Transportation Constrains Vladimir

Tsurkov,A. Mironov,2013-11-21 Transportation problems belong to the domains mathematical programming and operations research Transportation models are widely applied in various fields Numerous concrete problems for example assignment and distribution problems maximum flow problem etc are formulated as transportation problems Some efficient methods have been developed for solving transportation problems of various types This monograph is devoted to transportation problems with minimax criteria The classical linear transportation problem was posed several decades ago In this problem supply and demand points are given and it is required to minimize the transportation cost This statement paved the way for numerous extensions and generalizations In contrast to the original statement of the problem we consider a minimax rather than a minimum criterion In particular a matrix with the minimal largest element is sought in the class of nonnegative matrices with given sums of row and column elements In this case the idea behind the minimax criterion can be interpreted as follows Suppose that the shipment time from a supply point to a demand point is proportional to the amount to be shipped Then the minimax is the minimal time required to transport the total amount It is a common situation that the decision maker does not know the tariff coefficients In other situations they do not have any meaning at all and neither do nonlinear tariff objective functions In such cases the minimax interpretation leads to an effective solution

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web follow the below steps to conduct the diode test 1 for this test set the multimeter in the diode mode 2 for n channel mosfet connect the red probe positive to the source and black one at the drain common the body diode is in forward bias condition this way

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web in 1974 a highly fictionalized animated television special titled yes virginia there is a santa claus aired on abc it was animated by bill melendez and won the 1975 emmy award for outstanding children s special