

## **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

# Hull Chapter 3 Solutions

**John Staples**



### **Hull Chapter 3 Solutions:**

**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 The 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

**Combinatorial Optimization** William Cook, László Lovász, Paul D. Seymour, 1995-01-01 This is a carefully refereed collection of invited survey articles written by outstanding researchers Aimed at researchers in discrete mathematics operations research and the theory of computing this book offers an in depth look at many topics not treated in textbooks

*Numerical Methods for Viscosity Solutions and Applications* Maurizio Falcone, Charalampos Makridakis, 2001 Geometrical optics and viscosity solutions A P

Blanc G T Kossioris and G N Makrakis Computation of vorticity evolution for a cylindrical Type II superconductor subject to parallel and transverse applied magnetic fields A Briggs et al A characterization of the value function for a class of degenerate control problems F Camilli Some microstructures in three dimensions M Chipot and V Lecuyer Convergence of numerical schemes for the approximation of level set solutions to mean curvature flow K Deckelnick and G Dziuk Optimal discretization steps in semi lagrangian approximation of first order PDEs M Falcone R Ferretti and T Manfroni Convergence past singularities to the forced mean curvature flow for a modified reaction diffusion approach F Fierro The viscosity duality solutions approach to geometric ptpics for the Helmholtz equation L Gosse and F James Adaptive grid generation for evolutive Hamilton Jacobi Bellman equations L Grune Solution and application of anisotropic curvature driven evolution of curves and surfaces K Mikula An adaptive scheme on unstructured grids for the shape from shading problem M Sagona and A Seghini On a posteriori error estimation for constant obstacle problems A Veaser

### **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

**Bond Portfolio Optimization** Michael Puhle,2008-01-08 The book analyzes how modern portfolio theory and dynamic term structure models can be applied to government bond portfolio optimization problems The author studies the necessary adjustments examines the models with regard to the plausibility of their results and compares the outcomes to portfolio selection techniques used by practitioners Both single period and continuous time bond portfolio optimization problems are considered

Numerical Methods and Applications Todor Boyanov,Stefka Dimova,Krassimir Georgiev,Geno Nikolov,2007-05-15 This book constitutes the thoroughly refereed post proceedings of NMA 2006 held in Borovets Bulgaria Coverage in the 84 revised full papers includes numerical methods for hyperbolic problems robust preconditioning solution methods metaheuristics for optimization problems uncertain control systems and reliable numerics interpolation and quadrature processes and large scale computations in environmental modeling

**SSC.** United States. Ship Structure Committee,1995

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

Numerical Methods for the Solution of Ill-Posed Problems A.N. Tikhonov, A. Goncharsky, V.V. Stepanov, Anatoly G. Yagola, 2013-03-09 Many problems in science technology and engineering are posed in the form of operator equations of the first kind with the operator and RHS approximately known But such problems often turn out to be ill posed having no solution or a non unique solution and or an unstable solution Non existence and non uniqueness can usually be overcome by settling for generalised solutions leading to the need to develop regularising algorithms The theory of ill posed problems has advanced greatly since A N Tikhonov laid its foundations the Russian original of this book 1990 rapidly becoming a classical monograph on the topic The present edition has been completely updated to consider linear ill posed problems with or without a priori constraints non negativity monotonicity convexity etc Besides the theoretical material the book also contains a FORTRAN program library Audience Postgraduate students of physics mathematics chemistry economics engineering Engineers and scientists interested in data processing and the theory of ill posed problems

Computational Science and Its Applications - ICCSA 2006 Osvaldo Gervasi, Vipin Kumar, C.J. Kenneth Tan, David Taniar, Antonio Laganà, Youngsong Mun, Hyunseung Choo, 2006-05-11 The five volume set LNCS 3980 3984 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2006 The volumes present a total of 664 papers organized according to the five major conference themes computational methods algorithms and applications high performance technical computing and networks advanced and emerging applications geometric modelling graphics and visualization information systems and information technologies This is Part I

Optimization Methods for Logical Inference Vijay Chandru, John Hooker, 2011-09-26 Merging logic and mathematics in deductive inference an innovative cutting edge approach Optimization methods for logical inference Absolutely say Vijay Chandru and John Hooker two major contributors to this rapidly expanding field And even though solving logical inference problems with optimization methods may seem a bit like eating sauerkraut with chopsticks it is the mathematical structure of a problem that determines whether an optimization model can help solve it not the context in which the problem occurs Presenting powerful proven optimization techniques for logic inference problems Chandru and Hooker show how optimization models can be used not only to solve problems in artificial intelligence and mathematical programming but also

have tremendous application in complex systems in general They survey most of the recent research from the past decade in logic optimization interfaces incorporate some of their own results and emphasize the types of logic most receptive to optimization methods propositional logic first order predicate logic probabilistic and related logics logics that combine evidence such as Dempster Shafer theory rule systems with confidence factors and constraint logic programming systems Requiring no background in logic and clearly explaining all topics from the ground up Optimization Methods for Logical Inference is an invaluable guide for scientists and students in diverse fields including operations research computer science artificial intelligence decision support systems and engineering

### **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

*Problems and Solutions for Integer and Combinatorial Optimization* Mustafa Ç. Pınar,Deniz Akkaya,2023-11-10 The only book offering solved exercises for integer and combinatorial optimization this book contains 102 classroom tested problems of varying scope and difficulty chosen from a plethora of topics and applications It has an associated website containing additional problems lecture notes and suggested readings Topics covered include modeling capabilities of integer variables the Branch and Bound method cutting planes network optimization models shortest path problems optimum tree problems maximal cardinality matching problems matching covering duality symmetric and asymmetric TSP 2 matching and 1 tree relaxations VRP formulations and dynamic programming Problems and Solutions for Integer and Combinatorial Optimization Building Skills in Discrete Optimization is meant for undergraduate and beginning graduate students in mathematics computer science and engineering to use for self study and for instructors to use in conjunction with other course material and when teaching courses in discrete optimization

### **Algorithms and Computations John Staples,1995-11-15**

This book presents the refereed proceedings of the 6th International Symposium on Algorithms and Computation ISAAC 95 held in Cairns Australia in December 1995 The 45 revised full papers presented together with the abstracts of three invited talks were selected from a total of 130 submissions The papers address many current aspects of research and advanced applications of algorithms and computations among the topics covered are graph theory and graph algorithms computational geometry computational logics searching and sorting approximation and optimization algebraic manipulation and coding

Floquet Theory for Partial Differential Equations P.A. Kuchment,2012-12-06 Linear differential equations with periodic coefficients constitute a well developed part of the theory of ordinary differential equations 17 94 156 177 178 272 389 They arise in

many physical and technical applications 177 178 272 A new wave of interest in this subject has been stimulated during the last two decades by the development of the inverse scattering method for integration of nonlinear differential equations This has led to significant progress in this traditional area 27 71 72 111 119 250 276 277 284 286 287 312 313 337 349 354 392 393 403 404 At the same time many theoretical and applied problems lead to periodic partial differential equations We can mention for instance quantum mechanics 14 18 40 54 60 91 92 107 123 157 160 192 193 204 315 367 412 414 415 417 hydrodynamics 179 180 elasticity theory 395 the theory of guided waves 87 89 208 300 homogenization theory 29 41 348 direct and inverse scattering 175 206 216 314 388 406 408 parametric resonance theory 122 178 and spectral theory and spectral geometry 103 105 381 382 389 There is a significant distinction between the cases of ordinary and partial differential periodic equations The main tool of the theory of periodic ordinary differential equations is the so called Floquet theory 17 94 120 156 177 267 272 389 Its central result is the following theorem sometimes called Floquet Lyapunov theorem 120 267

*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

**Global Optimization and Constraint Satisfaction** Christian Bliek, Christophe Jermann, Arnold Neumaier, 2003-10-28 This book constitutes the thoroughly refereed post proceedings of the First International Workshop on Global Constraints Optimization and Constraint Satisfaction COCOS 2002 held in Valbonne Sophia Antipolis France in October 2002 The 15 revised full papers presented together with 2 invited papers were carefully selected during two rounds of reviewing and improvement The papers address current issues in global optimization mathematical programming and constraint programming they are grouped in topical sections on optimization constraint satisfaction and benchmarking

**Algorithms and Computation** Seok-Hee Hong, Hiroshi Nagamochi, Takuro Fukunaga, 2008-12 This book constitutes the refereed proceedings of the 19th International Symposium on Algorithms and Computation ISAAC 2008 held in Gold Coast Australia in December 2008 The 78 revised full papers together with 3 invited talks presented were carefully reviewed and selected from 229 submissions for inclusion in the book The papers are organized in topical sections on approximation algorithms online algorithms data structure and algorithms game theory graph algorithms fixed parameter tractability distributed algorithms database approximation algorithms computational biology computational geometry complexity networks optimization as well as routing

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Hull Chapter 3 Solutions**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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