

Problem 1

Question 1

Let X be a normally distributed random variable with mean μ and variance σ^2 . Let $f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$ denote the probability density function of X .

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

(a) The random variable Y has the probability density function $f_Y(y) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(y-\mu)^2}{2\sigma^2}}$. Find the probability density function of Y .

(b) Find the mean and variance of Y .

(c) Let $Z \sim N(\mu, \sigma^2)$ denote the standard normal distribution of a standard normal with mean μ and variance σ^2 . Show that

$$f_Y(y) = f_Z\left(\frac{y-\mu}{\sigma}\right) \frac{1}{\sigma} = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(y-\mu)^2}{2\sigma^2}} = f_Z\left(\frac{y-\mu}{\sigma}\right) \frac{1}{\sigma}$$

Question 2. The graph of the following function shows the average monthly deposit and savings total change of the banking firm described graphically.

(a) Does the above firm pay both with credit card and cash? Justify your answer.

(b) Does the firm pay with credit card only? Justify your answer.

(c) Does the firm pay with cash only? Justify your answer.

(d) Does the firm pay with credit card or N_1 and cash or N_2 (where $N_1, N_2 \in \mathbb{N}$) different times a month?

(e) In (d) how many times a month does the firm pay with credit card or N_1 and N_2 or N_1 or N_2 only or cash or N_1 or N_2 only?

(f) Does the firm pay with credit card or cash or N_1 or N_2 or N_1 or N_2 only or cash or N_1 or N_2 only or N_1 or N_2 only or cash or N_1 or N_2 only?

Question 3. In this question $\int_{-\infty}^{\infty} f(x) dx$ denotes the value of the generalized integral and $\int_a^b f(x) dx$ denotes the value of the definite integral. The function f is defined on the interval $(-\infty, \infty)$ and is continuous. The function f is defined on the interval $(-\infty, \infty)$ and is continuous. The function f is defined on the interval $(-\infty, \infty)$ and is continuous.

The function f is defined on the interval $(-\infty, \infty)$ and is continuous. The function f is defined on the interval $(-\infty, \infty)$ and is continuous. The function f is defined on the interval $(-\infty, \infty)$ and is continuous.

(a) Find the value of $\int_{-\infty}^{\infty} f(x) dx$ and $\int_a^b f(x) dx$.

Financial Derivatives Problems And Solutions

Lixin Su



Financial Derivatives Problems And Solutions:

Problems and Solutions in Mathematical Finance, Volume 2 Eric Chin, Dian Nel, Sverrir Iafsson, 2017-01-04 Detailed guidance on the mathematics behind equity derivatives Problems and Solutions in Mathematical Finance Volume II is an innovative reference for quantitative practitioners and students providing guidance through a range of mathematical problems encountered in the finance industry This volume focuses solely on equity derivatives problems beginning with basic problems in derivatives securities before moving on to more advanced applications including the construction of volatility surfaces to price exotic options By providing a methodology for solving theoretical and practical problems whilst explaining the limitations of financial models this book helps readers to develop the skills they need to advance their careers The text covers a wide range of derivatives pricing such as European American Asian Barrier and other exotic options Extensive appendices provide a summary of important formulae from calculus theory of probability and differential equations for the convenience of readers As Volume II of the four volume Problems and Solutions in Mathematical Finance series this book provides clear explanation of the mathematics behind equity derivatives in order to help readers gain a deeper understanding of their mechanics and a firmer grasp of the calculations Review the fundamentals of equity derivatives Work through problems from basic securities to advanced exotics pricing Examine numerical methods and detailed derivations of closed form solutions Utilise formulae for probability differential equations and more Mathematical finance relies on mathematical models numerical methods computational algorithms and simulations to make trading hedging and investment decisions For the practitioners and graduate students of quantitative finance Problems and Solutions in Mathematical Finance Volume II provides essential guidance principally towards the subject of equity derivatives

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Financial Derivatives in Theory and Practice Philip Hunt, Joanne Kennedy, 2004-11-19 The term Financial Derivative is a very broad term which has come to mean any financial transaction whose value depends on the underlying value of the asset concerned Sophisticated statistical modelling of derivatives enables practitioners in the banking industry to reduce financial risk and ultimately increase profits made from these transactions The book originally published in March 2000 to widespread acclaim This revised edition has been updated with minor corrections and new references and now includes a chapter of exercises and solutions enabling use as a course text Comprehensive introduction to the theory and practice of financial derivatives Discusses and elaborates on the theory of interest rate derivatives an area of increasing interest Divided into two self contained parts the first concentrating on the theory of stochastic calculus and the second describes in detail the pricing of a number of different derivatives in practice Written by well respected academics with experience in the banking industry A valuable text for practitioners in research departments of all banking and finance sectors Academic researchers and graduate students working in mathematical finance

A Concise Introduction to Financial Derivatives Eben Maré, 2024-11-13 A Concise Introduction to Financial Derivatives seeks to present financial derivatives in a manner that requires minimal mathematical background Readers will obtain in a quick and engaging way a working knowledge of the field and a collection of practical working insights The book is ideal for aspiring young practitioners advanced undergraduates and masters level students who require a concise and practice led introduction to financial derivatives Features Practical insights and modelling skills Accessible to practitioners and students without a significant mathematical background Eben Mar holds responsibility for absolute return portfolio management and has been working in the financial markets for the last 33 years He has also held senior roles in risk management treasury derivatives trading and asset management He has a PhD in Applied Mathematics and is an associate professor in Mathematics and Applied Mathematics at the University of Pretoria in South Africa He has wide research interests in financial derivatives asset management and financial markets

Financial Derivatives in Theory and Practice P. J. Hunt, J. E. Kennedy, 2000-05-31 This text primarily discusses the pricing and hedging of derivatives and the determination of risks associated with writing options Part 4 includes a compendium of examples many providing solutions to problems set earlier in the text

Mathematical Models of Financial Derivatives Yue-Kuen Kwok, 2008-07-10 Objectives and Audience In the past three decades we have witnessed the phenomenal growth in the trading of financial derivatives and structured products in the financial markets around the globe and the surge in research on derivative pricing theory Leading financial

institutions are hiring graduates with a science background who can use advanced analytical and numerical techniques to price financial derivatives and manage portfolio risks a phenomenon coined as Rocket Science on Wall Street There are now more than a hundred Master level degree programs in Financial Engineering Quantitative Finance Computational Finance on different continents This book is written as an introductory textbook on derivative pricing theory for students enrolled in these degree programs Another audience of the book may include practitioners in quantitative teams in financial institutions who would like to acquire the knowledge of option pricing techniques and explore the new development in pricing models of exotic structured derivatives The level of mathematics in this book is tailored to readers with preparation at the advanced undergraduate level of science and engineering majors in particular basic proficiencies in probability and statistics differential equations numerical methods and mathematical analysis Advance knowledge in stochastic processes that are relevant to the martingale pricing theory like stochastic differential calculus and theory of martingale are introduced in this book The cornerstones of derivative pricing theory are the Black Scholes Merton pricing model and the martingale pricing theory of financial derivatives

The Mathematics of Financial Derivatives Paul Wilmott, Sam Howison, Jeff Dewynne, 1995-09-29 Finance is one of the fastest growing areas in the modern banking and corporate world This together with the sophistication of modern financial products provides a rapidly growing impetus for new mathematical models and modern mathematical methods the area is an expanding source for novel and relevant real world mathematics In this book the authors describe the modelling of financial derivative products from an applied mathematician's viewpoint from modelling through analysis to elementary computation A unified approach to modelling derivative products as partial differential equations is presented using numerical solutions where appropriate Some mathematics is assumed but clear explanations are provided for material beyond elementary calculus probability and algebra Over 140 exercises are included This volume will become the standard introduction to this exciting new field for advanced undergraduate students

Derivative Securities and Difference Methods You-lan Zhu, Xiaonan Wu, Li-Liang Chern, Zhi-zhong Sun, 2013-07-04 This book is mainly devoted to finite difference numerical methods for solving partial differential equations PDEs models of pricing a wide variety of financial derivative securities With this objective the book is divided into two main parts In the first part after an introduction concerning the basics on derivative securities the authors explain how to establish the adequate PDE boundary value problems for different sets of derivative products vanilla and exotic options and interest rate derivatives For many option problems the analytic solutions are also derived with details The second part is devoted to explaining and analyzing the application of finite differences techniques to the financial models stated in the first part of the book For this the authors recall some basics on finite difference methods initial boundary value problems and having in view financial products with early exercise feature linear complementarity and free boundary problems In each chapter the techniques related to these mathematical and numerical subjects are applied to a wide variety of financial products This is a textbook for graduate students following a mathematical

finance program as well as a valuable reference for those researchers working in numerical methods in financial derivatives. For this new edition the book has been updated throughout with many new problems added. More details about numerical methods for some options for example Asian options with discrete sampling are provided and the proof of solution uniqueness of derivative security problems and the complete stability analysis of numerical methods for two dimensional problems are added. Review of first edition the book is highly well designed and structured as a textbook for graduate students following a mathematical finance program which includes Black Scholes dynamic hedging methodology to price financial derivatives. Also it is a very valuable reference for those researchers working in numerical methods in financial derivatives either with a more financial or mathematical background.

MATHEMATICAL REVIEWS *Building Financial Derivatives Applications with C++* Robert Brooks, 2000-03-30. Radical developments in financial management spurred by improvements in computer technology have created demand for people who can use modern financial techniques combined with computer skills such as C. Dr Brooks gives readers the ability to express derivative solutions in an attractive user friendly format and the ability to develop a permanent software package containing them. His book explains in detail how to write C source code and at the same time explains derivative valuation problems and methods. Entry level as well as experienced financial professionals have already found that the ability to understand and write C code has greatly enhanced their careers. This is an important hands on training resource for practitioners and a clearly presented textbook for graduate level students in business and finance. Dr Brooks combines object oriented C programming with modern derivatives technology and provides numerous examples to illustrate complex derivative applications. He covers C within the text and the Borland C Builder program on which the book is based in extensive appendices. His book combines basic C coding with fundamental finance problems, illustrates traditional techniques for solving more complicated problems and develops the reader's ability to express complex mathematical solutions in the object oriented framework of C. It also reviews derivative solutions techniques and illustrates them with C code reviews general approaches to valuing interest rate contingent claims and focuses on practical ways to implement them. The result is a book that trains readers simultaneously in the substance of its field: financial derivatives and the programming of solutions to problems in it.

Modelling Financial Derivatives with MATHEMATICA® William T. Shaw, 1998-12-10. CD plus book for financial modelling requires Mathematica 3 or 2.2 runs on most platforms.

Schaum's Outline of Theory and Problems of Financial Management Jae K. Shim, Joel G. Siegel, 1998. Explaining basic and advanced concepts of managerial finance this edition includes new information on multinational business finance. Advice on how to apply finance theory in practical terms is included as are concepts and principles to help readers improve analytical decision making abilities.

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Problems and Solutions in Mathematical Finance, Volume 4 Eric

Chin, Sverrir Ólafsson, Dian Nel, 2024-09-30 A practical problem solving reference for commodity and Forex derivatives Problems and Solutions in Mathematical Finance provides an innovative reference for quantitative finance students and practitioners Using a unique problem solving approach this invaluable guide bridges the gap between the theoretical and practical to impart a deeper understanding of the mathematical problems encountered in the finance industry Volume IV Commodity and Foreign Exchange Derivatives breaks down the complexity of the topic by walking you step by step through a variety of modelling problems Building skill upon skill you'll work through a series of problems of increasing difficulty as you learn both the strategy and mechanics behind each solution Coverage includes both theoretical and real world problems using stochastic calculus probability theory and statistics as well as an assumed understanding of exotic option and interest rate models covered in volumes II and III Financial institutions rely on quantitative analysis to inform decision making on trading hedging investing risk management and pricing This book provides both instruction and reference from a highly practical perspective giving you a highly applicable real world skillset Fully grasp the fundamentals of commodity and foreign exchange derivatives Follow mathematical modelling processes step by step Link theory to real world problems through guided problem solving Test your knowledge and skills with increasingly complex problem sets Commodity and Foreign Exchange Derivatives are a complex nuanced area in the quantitative finance realm Simply reading about these instruments fails to convey the level of understanding required to work with them in the real world quants draw upon an in depth knowledge of both finance and mathematics every day Problems and Solutions in Mathematical Finance provides practical reference and problem solving skills for anyone learning or working in quantitative finance **Swaps/financial Derivatives** Satyajit Das, 2004 The emphasis is on actual transactions that are stripped down to analyse and illustrate the dynamics of individual structures and to understand the types of products available The text is structured either to be read through from start to finish or to be used as a reference source Australian author The Chemical Trade Journal and Chemical Engineer G Kelville Davis, 1927 The Chemical Trade Journal and Chemical Engineer, 1918 Financial Statement Analysis Thomas R. Robinson, Paul Munter, Julia Grant, 2004 Robinson Munter and Grant's Financial Statement Analysis A Global Perspective is designed especially for users of financial statements Takes a financial statement analysis perspective The focus is on the user of financial statements and not the preparer of financial statements The emphasis is on the analysis and use of financial reports Knowledge of debits and credits is not required Emphasizes a global perspective by presenting both International Accounting Standards and U S GAAP Uses a step by step presentation to take students through the financial statement analysis process from understanding the financial statements to valuation Motorola and Nokia are used as running case examples throughout the text Additional real world examples are integrated into each chapter as appropriate Assignment Materials Many of the end of chapter problems have been reproduced from AIMR CFA R examination released questions and sample examinations Each chapter has a case derived from real company financial

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