

Homework 1

Question 1

Let $X(t)$ be a normally distributed random variable with mean μ and variance σ^2 . Find $E[X]$, $E[X^2]$, and show that the moment-generating function of X is

$$M_X(s) = e^{\mu s + \frac{1}{2}\sigma^2 s^2}.$$

(a) Use the above identity to show that moment-generating functions and probability density functions of X and $Y = \frac{X - \mu}{\sigma}$ are related as follows. Find the probability density function of Y .

(b) Find the mean and variance of Y .

(c) Let μ_1, μ_2, σ denote the moment-generating function of a standard normal with mean μ_1 and variance σ . Show that

$$M_X(s) = M_Y\left(\frac{s - \mu_1}{\sigma}\right) e^{\frac{1}{2}\sigma^2 \left(\frac{s - \mu_1}{\sigma}\right)^2} = M_Y\left(\frac{s - \mu_1}{\sigma}\right) e^{\frac{1}{2}(s - \mu_1)^2 \sigma}.$$

Question 2. The roots of the following polynomials give the complex growth exponent and spatial wavenumber of the underlying plane wave-like growth.

(a) Show the above being true with wavenumber k and growth exponent ω defined as variables.

(b) Sketch the real and imaginary parts of wavenumber k vs. wavenumber k .

(c) Sketch the real and imaginary parts of wavenumber k vs. wavenumber k .

(d) Sketch the real and imaginary parts of wavenumber k vs. wavenumber k , where $k_1, k_2, k_3, k_4, k_5, k_6$ follow from (a) straight.

(e) Use (a) to show that k and wavenumber k are related as $k = \frac{\omega}{\sigma} + \frac{1}{2}\sigma$ and $k_1, k_2, k_3, k_4, k_5, k_6$ follow from (a) straight.

(f) Sketch the real and imaginary parts of wavenumber k vs. wavenumber k , where $k_1, k_2, k_3, k_4, k_5, k_6$ follow from (a) straight.

Question 3. In this question, \mathcal{L}^{-1} and \mathcal{L} denote the inverse and forward Laplace transforms and \mathcal{L}^{-1} and \mathcal{L} denote the inverse and forward Fourier transforms. Define \mathcal{L}^{-1} and \mathcal{L} as follows: $\mathcal{L}^{-1}\{f(s)\} = \int_{-\infty}^{\infty} f(s) e^{st} ds$ and $\mathcal{L}\{f(t)\} = \int_{-\infty}^{\infty} f(t) e^{-st} dt$. The convolution theorem states that $\mathcal{L}\{f * g\} = \mathcal{L}\{f\} \mathcal{L}\{g\}$ and $\mathcal{L}^{-1}\{f(s)g(s)\} = \mathcal{L}^{-1}\{f\} * \mathcal{L}^{-1}\{g\}$. The convolution theorem states that $\mathcal{L}\{f * g\} = \mathcal{L}\{f\} \mathcal{L}\{g\}$ and $\mathcal{L}^{-1}\{f(s)g(s)\} = \mathcal{L}^{-1}\{f\} * \mathcal{L}^{-1}\{g\}$.

Use convolution theorem to solve the following equation for $x(t)$ and use convolution theorem to solve the following equation for $x(t)$. Use convolution theorem to solve the following equation for $x(t)$. Use convolution theorem to solve the following equation for $x(t)$. Use convolution theorem to solve the following equation for $x(t)$.

(a) $\mathcal{L}\{x(t)\} = \frac{1}{s^2 + 1}$. Use convolution theorem to solve for $x(t)$.

Financial Derivatives Problems And Solutions Artake

Richard L Sandor



Financial Derivatives Problems And Solutions Artake:

Derivative Securities and Difference Methods You-lan Zhu, Xiaonan Wu, I-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

Foundations of the Pricing of Financial Derivatives Robert E. Brooks, Don M. Chance, 2024-01-25 An accessible and mathematically rigorous resource for masters and PhD students In *Foundations of the Pricing of Financial Derivatives Theory and Analysis* two expert finance academics with professional experience deliver a practical new text for doctoral and masters students and also new practitioners The book draws on the authors extensive combined experience teaching researching and consulting on this topic and strikes an effective balance between fine grained quantitative detail and high level theoretical explanations The authors fill the gap left by books directed at masters level students that often lack mathematical rigor Further books aimed at mathematically trained graduate students often lack quantitative explanations and critical foundational materials Thus this book provides the technical background required to understand the more advanced mathematics used in this discipline in class in research and in practice Readers will also find Tables figures line drawings practice problems with a solutions manual references and a glossary of commonly used specialist terms Review of material in calculus probability theory and asset pricing Coverage of both arithmetic and geometric Brownian motion

Extensive treatment of the mathematical and economic foundations of the binomial and Black Scholes Merton models that explains their use and derivation deepening readers understanding of these essential models Deep discussion of essential concepts like arbitrage that broaden students understanding of the basis for derivative pricing Coverage of pricing of forwards futures and swaps including arbitrage free term structures and interest rate derivatives An effective and hands on text for masters level and PhD students and beginning practitioners with an interest in financial derivatives pricing

Foundations of the Pricing of Financial Derivatives is an intuitive and accessible resource that properly balances math theory and practical applications to help students develop a healthy command of a difficult subject Advanced Derivatives Pricing and Risk Management Claudio Albanese, Giuseppe Campolieti, 2005-09-08 Advanced Derivatives Pricing and Risk Management covers the most important and cutting edge topics in financial derivatives pricing and risk management striking a fine balance between theory and practice The book contains a wide spectrum of problems worked out solutions detailed methodologies and applied mathematical techniques for which anyone planning to make a serious career in quantitative finance must master In fact core portions of the book s material originated and evolved after years of classroom lectures and computer laboratory courses taught in a world renowned professional Master s program in mathematical finance The book is designed for students in finance programs particularly financial engineering Includes easy to implement VB VBA numerical software libraries Proceeds from simple to complex in approaching pricing and risk management problems Provides analytical methods to derive cutting edge pricing formulas for equity derivatives **Elementary Financial Derivatives** Jana Sacks, 2015-10-30 A step by step approach to the mathematical financial theory and quantitative methods needed to implement and apply state of the art valuation techniques Written as an accessible and appealing introduction to financial derivatives Elementary Financial Derivatives A Guide to Trading and Valuation with Applications provides the necessary techniques for teaching and learning complex valuation techniques Filling the current gap in financial engineering literature the book emphasizes an easy to understand approach to the methods and applications of complex concepts without focusing on the underlying statistical and mathematical theories Organized into three comprehensive sections the book discusses the essential topics of the derivatives market with sections on options swaps and financial engineering concepts applied primarily but not exclusively to the futures market Providing a better understanding of how to assess risk exposure the book also includes A wide range of real world applications and examples detailing the theoretical concepts discussed throughout Numerous homework problems highlighted equations and Microsoft Office Excel modules for valuation Pedagogical elements such as solved case studies select answers to problems and key terms and concepts to aid comprehension of the presented material A companion website that contains an Instructor s Solutions Manual sample lecture PowerPoint slides and related Excel files and data sets Elementary Financial Derivatives A Guide to Trading and Valuation with Applications is an excellent introductory textbook for upper undergraduate courses in financial derivatives quantitative finance mathematical finance and

financial engineering The book is also a valuable resource for practitioners in quantitative finance industry professionals who lack technical knowledge of pricing options and readers preparing for the CFA exam Jana Sacks PhD is Associate Professor in the Department of Accounting and Finance at St John Fisher College in Rochester New York A member of The American Finance Association the National Association of Corporate Directors and the International Atlantic Economic Society Dr Sack s research interests include risk management credit derivatives pricing hedging and structured finance

Financial Derivatives in Theory and Practice Philip Hunt,Joanne Kennedy,2004-07-02 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

Derivatives Paul Wilmott,1998-12-08 Accompanying computer optical disc contains demos of commercial software spreadsheets and code illustrating models and methods from the book cutting edge research articles data document and demo from CrashMetrics the Value at Risk methodology book

Financial Derivatives Rob Quail,James A. Overdahl,2009-10-15 Essential insights on the various aspects of financial derivatives If you want to understand derivatives without getting bogged down by the mathematics surrounding their pricing and valuation *Financial Derivatives* is the book for you Through in depth insights gleaned from years of financial experience Robert Kolb and James Overdahl clearly explain what derivatives are and how you can prudently use them within the context of your underlying business activities *Financial Derivatives* introduces you to the wide range of markets for financial derivatives This invaluable guide offers a broad overview of the different types of derivatives futures options swaps and structured products while focusing on the principles that determine market prices This comprehensive resource also provides a thorough introduction to financial derivatives and their importance to risk management in a corporate setting Filled with helpful tables and charts *Financial Derivatives* offers a wealth of knowledge on futures options swaps financial engineering and structured products Discusses what derivatives are and how you can prudently implement them within the context of your underlying business activities Provides thorough coverage of financial derivatives and their role in risk management Explores financial derivatives without getting bogged down by the mathematics surrounding their pricing and valuation This informative guide

will help you unlock the incredible potential of financial derivatives

Financial Derivatives: Text & Cases Prakash Yaragol, Financial Derivatives Text and Cases has been written primarily for the students of MBA MCom MFC MIB and so on who wish to study the subject as a part of their specialization in the area of finance It will also be useful to finance professionals It is written in a very simple language and presented in a neat style covering the entire spectrum ranging from basics to advanced aspects of financial derivatives The focus is on recent developments in the area The book sets the direction of every chapter by laying down course outcomes at the beginning of each chapter Judicially supplementing and substantiating the main text are figures and charts tables numerical illustrations different types of questions such as fill in the blanks true false short answer questions and essay type questions Every chapter ends with a brief summary of the entire text of the chapter which helps the reader to grasp its important aspects

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

Financial Derivatives Rob Quail, James A. Overdahl, 2002-10-21 Financial Derivatives Jetzt neu in der 3 komplett bearbeiteten Auflage Dieses umfassende Nachschlagewerk bietet eine gründliche Einführung in das Thema Finanzderivate und ihre Bedeutung für das Risikomanagement im Unternehmensumfeld Es vermittelt fundierte Kenntnisse zum Thema Finanzderivate und zwar mit einem verständlich gehaltenen Minimum an Finanzmathematik was Preisbildung und Bewertung angeht Mit einer breitgefächerten Übersicht über die verschiedenen Arten von Finanzderivaten Mit neuem Material zu Kreditderivaten und zur Kreditrisikobewertung bei Derivaten Mit neuen und ausführlicheren Informationen zu den Themen Finanztechnik und strukturierte Finanzprodukte Financial Derivatives Ein unverzichtbarer Ratgeber für alle Finanzexperten im Bereich

Risikomanagement Financial Derivatives Pricing: Selected Works Of Robert Jarrow Robert A Jarrow,2008-10-08 This book is a collection of original papers by Robert Jarrow that contributed to significant advances in financial economics Divided into three parts Part I concerns option pricing theory and its foundations The papers here deal with the famous Black Scholes Merton model characterizations of the American put option and the first applications of arbitrage pricing theory to market manipulation and liquidity risk Part II relates to pricing derivatives under stochastic interest rates Included is the paper introducing the famous Heath Jarrow Morton HJM model together with papers on topics like the characterization of the difference between forward and futures prices the forward price martingale measure and applications of the HJM model to foreign currencies and commodities Part III deals with the pricing of financial derivatives considering both stochastic interest rates and the likelihood of default Papers cover the reduced form credit risk model in particular the original Jarrow and Turnbull model the Markov model for credit rating transitions counterparty risk and diversifiable default risk

Good Derivatives Richard L Sandor,2012-04-06 Through the eyes of an inventor of new markets *Good Derivatives A Story of Financial and Environmental Innovation* tells the story of how financial innovation a concept that is misunderstood and under attack has been a positive force in the last four decades If properly designed and regulated these good derivatives can open vast possibilities to address a variety of global problems Filled with provocative ideas fascinating stories and valuable lessons it will provide both an insightful interpretation of the last forty years in capital and environmental markets and a vision of world finance for the next forty years As a young economist at the Chicago Board of Trade Richard Sandor helped create interest rate futures a development that revolutionized worldwide finance Later he pioneered the use of emissions trading to reduce acid rain one of the most successful environmental programs ever He will provide unique insights into the process of creating these new financial products Covering successes and failures the story describes the tireless process of inventing educating and creating support for these new inventions in places like Chicago New York London Paris and how it is unfolding today in Mumbai Shanghai and Beijing The book will tell the story of the creation of the Chicago Climate Exchange and its affiliated exchanges European Climate Exchange Chicago Climate Futures Exchange and Tianjin Climate Exchange located in China The lessons learned in these markets can play a critical role in effectively addressing global climate change and other pressing environmental issues The author argues that market based trading systems are a far more effective means of reducing pollutants than command and control Environmental markets may ultimately help to find solutions to issues such as rainforest destruction water problems and biodiversity threats Written in an engaging narrative style *Good Derivatives* will be of interest to both practitioners and general readers who want to better understand the creative process of financial innovation In the middle of so much distrust of markets it is also a recipe of how transparent well regulated markets can be a force for good in the environmental health and social areas

Derivative Pricing Ambrose Lo,2018-07-04 The proliferation of financial derivatives over the past decades options in particular has underscored the increasing

importance of derivative pricing literacy among students researchers and practitioners Derivative Pricing A Problem Based Primer demystifies the essential derivative pricing theory by adopting a mathematically rigorous yet widely accessible pedagogical approach that will appeal to a wide variety of audience Abandoning the traditional black box approach or theorists pedantic approach this textbook provides readers with a solid understanding of the fundamental mechanism of derivative pricing methodologies and their underlying theory through a diversity of illustrative examples The abundance of exercises and problems makes the book well suited as a text for advanced undergraduates beginning graduates as well as a reference for professionals and researchers who need a thorough understanding of not only how but also why derivative pricing works It is especially ideal for students who need to prepare for the derivatives portion of the Society of Actuaries Investment and Financial Markets Exam Features Lucid explanations of the theory and assumptions behind various derivative pricing models Emphasis on intuitions mnemonics as well as common fallacies Interspersed with illustrative examples and end of chapter problems that aid a deep understanding of concepts in derivative pricing Mathematical derivations while not eschewed are made maximally accessible A solutions manual is available for qualified instructors The Author Ambrose Lo is currently Assistant Professor of Actuarial Science at the Department of Statistics and Actuarial Science at the University of Iowa He received his Ph D in Actuarial Science from the University of Hong Kong in 2014 with dependence structures risk measures and optimal reinsurance being his research interests He is a Fellow of the Society of Actuaries FSA and a Chartered Enterprise Risk Analyst CERA His research papers have been published in top tier actuarial journals such as ASTIN Bulletin The Journal of the International Actuarial Association Insurance Mathematics and Economics and Scandinavian Actuarial Journal [The Dangers of Complex Investments: Risk Management in Derivatives Trading with short problems, calculated answers and explanations](#) Cynthia Obiri,2013-01-02 This book discusses the dangers of derivatives and focuses on AIG s recent issues The book also includes several short derivatives problems with calculated answers and a step by step guide *Practice Problems and Solutions Book for Fundamentals of Derivatives Markets* Robert L. McDonald,Mark Cassano,2008-04-01 The Practice Problems and Solutions Book offers students additional practice problems and worked out solutions Students can purchase the printed Practice Problems and Solutions Book from our online catalog or from MyPearsonStore [FINANCIAL DERIVATIVES](#) GUPTA, S.L. ,2017-07-01 This highly acclaimed text designed for postgraduate students of management commerce and financial studies has been enlarged and updated in its second edition by introducing new chapters and topics with its focus on conceptual understanding based on practical examples Each derivative product is illustrated with the help of diagrams charts tables and solved problems Sufficient exercises and review questions help students to practice and test their knowledge Since this comprehensive text includes latest developments in the field the students pursuing CA ICWA and CFA will also find this book of immense value besides management and commerce students THE NEW EDITION INCLUDES Four new chapters on Forward Rate Agreements

Pricing and Hedging of Swaps Real Options and Commodity Derivatives Market Substantially revised chapters Risk Management in Derivatives Foreign Currency Forwards and Credit Derivatives Trading mechanism of Short term interest rate futures and Long term interest rate futures Trading of foreign currency futures in India with RBI Guidelines Currency Option Contracts in India More solved examples and practice problems Separate sections on Swaps and Other Financial Instruments Extended Glossary [Derivatives](#) Wendy L. Pirie,2017-03-27 The complete guide to derivatives from the experts at the CFA Derivatives is the definitive guide to derivatives derivative markets and the use of options in risk management Written by the experts at the CFA Institute this book provides authoritative reference for students and investment professionals seeking a deeper understanding for more comprehensive portfolio management General discussion of the types of derivatives and their characteristics gives way to detailed examination of each market and its contracts including forwards futures options and swaps followed by a look at credit derivatives markets and their instruments Included lecture slides help bring this book directly into the classroom while the companion workbook sold separately provides problems and solutions that align with the text and allows students to test their understanding while facilitating deeper internalization of the material Derivatives have become essential to effective financial risk management and create synthetic exposure to asset classes This book builds a conceptual framework for understanding derivative fundamentals with systematic coverage and detailed explanations Understand the different types of derivatives and their characteristics Delve into the various markets and their associated contracts Examine the use of derivatives in portfolio management Learn why derivatives are increasingly fundamental to risk management The CFA Institute is the world s premier association for investment professionals and the governing body for the CFA CIPM and Investment Foundations Programs Those seeking a deeper understanding of the markets mechanisms and use of derivatives will value the level of expertise CFA lends to the discussion providing a clear comprehensive resource for students and professionals alike Whether used alone or in conjunction with the companion workbook Derivatives offers a complete course in derivatives and their markets [Global Derivatives](#) Eric Benhamou,2007 This book provides a broad description of the financial derivatives business from a practitioner s point of view with a particular emphasis on fixed income derivatives a specific development on fixed income derivatives and a practical approach to the field With particular emphasis on the concrete usage of mathematical models numerical methods and the pricing methodology this book is an essential reading for anyone considering a career in derivatives either as a trader a quant or a structurer [Problems Book for Fundamentals of Derivatives Markets](#) Robert L. McDonald,2014-04-15 [Financial Derivatives](#) Chartered Institute for Securities & Investment,2012

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