

# Financial Maths

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## Integration

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

Let  $I = \int_{-\infty}^{\infty} e^{-x^2} dx$ , then  $I^2 = \int_{-\infty}^{\infty} e^{-x^2} dx \int_{-\infty}^{\infty} e^{-y^2} dy = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} e^{-(x^2+y^2)} dx dy$

We then convert into polar coordinates:  $x = r \cos(\theta)$ ,  $y = r \sin(\theta)$ ,  $dx dy = r dr d\theta$

$$I^2 = \int_0^{2\pi} \int_0^{\infty} e^{-r^2} r dr d\theta = \frac{1}{2} \int_0^{2\pi} d\theta = \pi$$

$$\Rightarrow I = \sqrt{\pi}$$

$$\int_0^{\infty} e^{-x^2} dx = \frac{\sqrt{\pi}}{2}$$

$$\int_{-\infty}^{\infty} e^{-ax^2} dx$$

Let  $s = \sqrt{a} x$  so  $ds = \sqrt{a} dx$

Hence  $\frac{1}{\sqrt{a}} \int_{-\infty}^{\infty} e^{-s^2} ds = \sqrt{\frac{\pi}{a}}$

## Error Function

$$\operatorname{erf}(x) = \frac{2}{\sqrt{\pi}} \int_0^x e^{-t^2} dt \quad \text{is the error function}$$

$$\operatorname{erfc}(x) = \frac{2}{\sqrt{\pi}} \int_x^{\infty} e^{-t^2} dt \quad \text{is the complementary error function}$$

$$\operatorname{erf}(x) + \operatorname{erfc}(x) = \frac{2}{\sqrt{\pi}} \left( \int_0^x + \int_x^{\infty} \right) = \frac{2}{\sqrt{\pi}} \int_0^{\infty} e^{-t^2} dt = 1$$

$$\int_{x_0}^{x_1} e^{-x^2} dx = \int_{x_0}^0 + \int_0^{x_1} = \int_0^{x_1} - \int_0^{x_0} = \frac{\sqrt{\pi}}{2} \left( \frac{2}{\sqrt{\pi}} \int_0^{x_1} - \frac{2}{\sqrt{\pi}} \int_0^{x_0} \right) = \frac{\sqrt{\pi}}{2} (\operatorname{erf}(x_1) - \operatorname{erf}(x_0))$$

## Taylor Series Expansion (TSE)

We consider the function  $f(x)$  and what happens when we consider  $f(x+\delta x)$

$$f(x+\delta x) = f(x) + f'(x)\delta x + \frac{1}{2!} f''(x)\delta x^2 + O(\delta x^3)$$

For a general power series  $f(x) = \sum_{n=0}^{\infty} a_n(x)[x-x_0]^n$

# Financial Mathematics Lecture Notes

**Monique Jeanblanc, Marc Yor, Marc  
Chesney**



## **Financial Mathematics Lecture Notes:**

Lecture Notes on Financial Mathematics Francesca Beccacece, 2020      **From Probability to Finance** Ying

Jiao, 2020-03-20 This volume presents a collection of lecture notes of mini courses taught at BICMR Summer School of Financial Mathematics from May 29 to June 9 2017 Each chapter is self contained and corresponds to one mini course which deals with a distinguished topic such as branching processes enlargement of filtrations Hawkes processes copula models and valuation adjustment analysis whereas the global topics cover a wide range of advanced subjects in financial mathematics from both theoretical and practical points of view The authors include world leading specialists in the domain and also young active researchers This book will be helpful for students and those who work on probability and financial mathematics

*Paris-Princeton Lectures on Mathematical Finance 2010* Areski Cousin, Stéphane Crépey, Olivier Guéant, David Hobson, Monique Jeanblanc, Jean-Michel Lasry, Jean-Paul Laurent, Pierre-Louis Lions, Peter Tankov, 2010-10-06 The Paris Princeton Lectures in Financial Mathematics of which this is the fourth volume publish cutting edge research in self contained expository articles from outstanding specialists established or on the rise The aim is to produce a series of articles that can serve as an introductory reference source for research in the field The articles are the result of frequent exchanges between the finance and financial mathematics groups in Paris and Princeton The present volume sets standards with five articles by 1 Areski Cousin Monique Jeanblanc and Jean Paul Laurent 2 Stéphane Crépey 3 Olivier Guéant Jean Michel Lasry and Pierre Louis Lions 4 David Hobson and 5 Peter Tankov      **Introductory Course On Financial Mathematics** Michael

Tretyakov, 2013-07-23 This book is an elementary introduction to the basic concepts of financial mathematics with a central focus on discrete models and an aim to demonstrate simple but widely used financial derivatives for managing market risks Only a basic knowledge of probability real analysis ordinary differential equations linear algebra and some common sense are required to understand the concepts considered in this book Financial mathematics is an application of advanced mathematical and statistical methods to financial management and markets with a main objective of quantifying and hedging risks Since the book aims to present the basics of financial mathematics to the reader only essential elements of probability and stochastic analysis are given to explain ideas concerning derivative pricing and hedging To keep the reader intrigued and motivated the book has a sandwich structure probability and stochastics are given in situ where mathematics can be readily illustrated by application to finance The first part of the book introduces one of the main principles in finance no arbitrage pricing It also introduces main financial instruments such as forward and futures contracts bonds and swaps and options The second part deals with pricing and hedging of European and American type options in the discrete time setting In addition the concept of complete and incomplete markets is discussed Elementary probability is briefly revised and discrete time discrete space stochastic processes used in financial modelling are considered The third part introduces the Wiener process Ito integrals and stochastic differential equations but its main focus is the famous Black Scholes formula for

pricing European options Some guidance for further study within this exciting and rapidly changing field is given in the concluding chapter There are approximately 100 exercises interspersed throughout the book and solutions for most problems are provided in the appendices

An Undergraduate Introduction to Financial Mathematics J. Robert Buchanan, 2008 This textbook provides an introduction to financial mathematics and financial engineering for undergraduate students who have completed a three or four semester sequence of calculus courses It introduces the theory of interest random variables and probability stochastic processes arbitrage option pricing hedging and portfolio optimization The student progresses from knowing only elementary calculus to understanding the derivation and solution of the Black Scholes partial differential equation and its solutions This is one of the few books on the subject of financial mathematics which is accessible to undergraduates having only a thorough grounding in elementary calculus It explains the subject matter without hand waving arguments and includes numerous examples Every chapter concludes with a set of exercises which test the chapter's concepts and fill in details of derivations Publisher's description

Lectures on the Mathematics of Finance Ioannis Karatzas, 1997 In this text the author discusses the main aspects of mathematical finance These include arbitrage hedging and pricing of contingent claims portfolio optimization incomplete and or constrained markets equilibrium and transaction costs The book outlines advances made possible during the last fifteen years due to the methodologies of stochastic analysis and control Readers are presented with current research and open problems are suggested This tutorial survey of the rapidly expanding field of mathematical finance is addressed primarily to graduate students in mathematics Familiarity is assumed with stochastic analysis and parabolic partial differential equations The text makes significant use of students' mathematical skills but always in connection with interesting applied problems

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approximation Levy processes and iterated random maps and some classes of Markov processes Other chapters cover random walk and fluctuation theory a semigroup representation and asymptotic behavior of certain statistics of the Fisher Wright Moran coalescent continuous time ARMA processes record sequence and their applications stochastic networks with product form equilibrium and stochastic processes in insurance and finance Other subjects include renewal theory stochastic processes in reliability supports of stochastic processes of multiplicity one Markov chains diffusion processes and Ito's stochastic calculus and its applications c Book News Inc Continuous-Time Asset Pricing Theory Robert A.

Jarrow,2021-07-30 Asset pricing theory yields deep insights into crucial market phenomena such as stock market bubbles Now in a newly revised and updated edition this textbook guides the reader through this theory and its applications to markets The new edition features new results on state dependent preferences a characterization of market efficiency and a more general presentation of multiple factor models using only the assumptions of no arbitrage and no dominance Taking an innovative approach based on martingales the book presents advanced techniques of mathematical finance in a business and economics context covering a range of relevant topics such as derivatives pricing and hedging systematic risk portfolio optimization market efficiency and equilibrium pricing models For applications to high dimensional statistics and machine learning new multi factor models are given This new edition integrates suicide trading strategies into the understanding of asset price bubbles greatly enriching the overall presentation and further strengthening the book's underlying theme of economic bubbles Written by a leading expert in risk management Continuous Time Asset Pricing Theory is the first textbook on asset pricing theory with a martingale approach Based on the author's extensive teaching and research experience on the topic it is particularly well suited for graduate students in business and economics with a strong mathematical background

Commodities, Energy and Environmental Finance René Aïd,Michael Ludkovski,Ronnie Sircar,2015-06-30 This volume is a collection of chapters covering the latest developments in applications of financial mathematics and statistics to topics in energy commodity financial markets and environmental economics The research presented is based on the presentations and discussions that took place during the Fields Institute Focus Program on Commodities Energy and Environmental Finance in August 2013 The authors include applied mathematicians economists and industry practitioners providing for a multi disciplinary spectrum of perspectives on the subject The volume consists of four sections Electricity Markets Real Options Trading in Commodity Markets and Oligopolistic Models for Energy Production Taken together the chapters give a comprehensive summary of the current state of the art in quantitative analysis of commodities and energy finance The topics covered include structural models of electricity markets financialization of commodities valuation of commodity real options game theory analysis of exhaustible resource management and analysis of commodity ETFs The volume also includes two survey articles that provide a source for new researchers interested in getting into these topics

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