

# 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  $ds = \sqrt{a} dx$

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

## 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

**René Aïd, Michael Ludkovski, Ronnie  
Sircar**



## **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      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      **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

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Discrete-Time Approximations and Limit Theorems Yuliya Mishura, Kostiantyn Ralchenko, 2021-10-25. Financial market modeling is a prime example of a real life application of probability theory and stochastics. This authoritative book discusses the discrete time approximation and other qualitative properties of models of financial markets like the Black-Scholes model and its generalizations, offering in this way rigorous insights on one of the most interesting applications of mathematics nowadays.

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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