

# 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

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

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

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

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

## 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

**Francesca Beccacece**



## Financial Mathematics Lecture Notes:

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**Lectures on BSDEs, Stochastic Control, and Stochastic Differential Games with Financial Applications** Rene Carmona,2016-02-18 The goal of this textbook is to introduce students to the stochastic analysis tools that play an increasing role in the probabilistic approach to optimization problems including stochastic control and stochastic differential games While optimal control is taught in many graduate programs in applied mathematics and operations research the author was intrigued by the lack of coverage of the theory of stochastic differential games This is the first title in SIAM s Financial Mathematics book series and is based on the author s lecture notes It will be helpful to students who are interested in stochastic differential equations forward backward forward backward the probabilistic approach to stochastic control dynamic programming and the stochastic maximum principle and mean field games and control of McKean Vlasov dynamics The theory is illustrated by applications to models of systemic risk macroeconomic growth flocking schooling crowd behavior and predatory trading among others

*Portfolio Optimization and Performance Analysis* Jean-Luc Prigent,2007-05-07 Covering both static and dynamic portfolio optimisation this title contains an overview of active and passive portfolio optimisation With modern risk analysis it summarises results of portfolio optimisation and shows how theoretical results can be applied to practical and operational portfolio management and optimisation

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