

# Examples of Short Rate Models

## □ Single factor short rate model

Vasicek:  $dr = k(\theta - r)dt + \alpha dW_t$

CIR:  $dr = k(\theta - r)dt + \sigma\sqrt{r}dW_t$

## □ Multi-factor short rate model

$$r = x + y$$

$$dx = k_x(\theta_x - x)dt + \sigma_x dW_x$$

$$dy = k_y(\theta_y - y)dt + \sigma_y dW_y$$

$$(dW_x, dW_y) = \rho dt$$

# Lecture 7 Interest Rate Models I Short Rate Models

**C Cleary**



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Paris-Princeton Lectures on Mathematical Finance 2004 René Carmona, Ivar Ekeland, Jean-Michel Lasry, Pierre-Louis Lions, Huyên Pham, Erik Taflin, 2007-08-10 This is the third volume in the Paris Princeton Lectures in Financial Mathematics which publishes on an annual basis cutting edge research in self contained expository articles from outstanding specialists both established and upcoming Coverage includes articles by Ren Carmona Ivar Ekeland Erik Taflin Arturo Kohatsu Higa Pierre Louis Lions Jean Michel Lasry and Huy n Pham *Paris-Princeton Lectures on Mathematical Finance ...*, 2004

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The authors use dynamic models to estimate the term structure of interest rates and show the reader how to build their own numerical simulations It includes software that will enable readers to simulate the various models covered in the book

**Arbitrage Theory in Continuous Time** Tomas Björk, 2019-12-05 The fourth edition of this widely used textbook on pricing and hedging of financial derivatives now also includes dynamic equilibrium theory and continues to combine sound mathematical principles with economic applications Concentrating on the probabilistic theory of continuous time arbitrage pricing of financial derivatives including stochastic optimal control theory and optimal stopping theory Arbitrage Theory in Continuous Time is designed for graduate students in economics and mathematics and combines the necessary mathematical background with a solid economic focus It includes a solved example for every new technique presented contains numerous exercises and suggests further reading in each chapter All concepts and ideas are discussed not only from a mathematics point of view but with lots of intuitive economic arguments In the substantially extended fourth edition Tomas Björk has added completely new chapters on incomplete markets treating such topics as the Esscher transform the minimal martingale measure  $f$  divergences optimal investment theory for incomplete markets and good deal bounds This edition includes an entirely new section presenting dynamic equilibrium theory covering unit net supply endowments models and the Cox Ingersoll Ross equilibrium factor model Providing two full treatments of arbitrage theory the classical delta hedging approach and the modern martingale approach this book is written so that these approaches can be studied independently of each other thus providing the less mathematically oriented reader with a self contained introduction to arbitrage theory and equilibrium theory while at the same time allowing the more advanced student to see the full theory in action This textbook is a natural choice for graduate students and advanced undergraduates studying finance and an invaluable introduction to mathematical finance for mathematicians and professionals in the market

Asymptotic Analysis for Functional Stochastic Differential Equations Jianhai Bao, George Yin, Chenggui Yuan, 2016-11-19 This brief treats dynamical systems that involve delays and random disturbances The study is motivated by a wide variety of systems in real life in which random noise has to be taken into consideration and the effect of delays cannot be ignored Concentrating on such systems that are described by functional stochastic differential equations this work focuses on the study of large time behavior in particular ergodicity This brief is written for probabilists applied mathematicians engineers and scientists who need to use delay systems and functional stochastic differential equations in their work Selected topics from the brief can also be used in a graduate level topics course in probability and stochastic processes

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