

THE NEW INTEREST RATE MODELS

Edited by Lane Hughston

RISK

BOOKS

CONTENTS

Contributors	vii
Introduction	xiii
Lane P. Hughston	
FORWARD SHORT RATE MODELS AND THEIR EMPIRICAL CONSEQUENCES	
1 Bond Pricing and the Term Structure of Interest Rates: A New Methodology for Contingent Claims Valuation	3
David Heath, Robert Jarrow and Andrew J. Morton	
2 Testing the Heath-Jarrow-Morton/Ho-Lee Model of Interest Rate Contingent Claims Pricing	29
Bjorn Flesaker	
3 Implied Volatility Functions in Arbitrage-Free Term Structure Models	41
Kaushik I. Amin and Andrew J. Morton	
4 Volatility Structures of Forward Rates and the Dynamics of the Term Structure	69
Peter Ritchken and L. Sankarasubramanian	
SHORT RATE MODELS NEW AND OLD	
5 The Volatility of Short-Term Interest Rates: An Empirical Comparison of Alternative Models of the Term Structure of Interest Rates	87
K. C. Chan, G. Andrew Karolyi, Francis A. Longstaff and Anthony B. Sanders	
6 When is the Short Rate Markovian?	101
Andrew Carverhill	
7 Non-Parametric Pricing of Interest Rate-Derivative Securities	109
•Yacine ATt-Sahalia	
8 A Non-Parametric Analysis of the Forward Rate Volatilities	137
Neil D. Pearson and Anjun Zhou	
9 Bond Market Clearing	157
Oldrich Alfons Vasicek	
POTENTIALS AND POSITIVE INTEREST	
10 A Theory of the Nominal Term Structure of Interest Rates	171
George M. Constantinides	
11 The Potential Approach to the Term Structure of Interest Rates and Foreign Exchange Rates	189
L. C. G. Rogers	

12	A Note on the Flesaker-Hughston Model of the Term Structure of Interest Rates Marek Rutkowski	205
13	International Models for Interest Rates and Foreign Exchange Bjorn Flesaker and Lane P. Hughston	217
14	Markov-Functional Interest Rate Models Phil Hunt, Joanne Kennedy and Antoon Pelsser	237
FROM MARKET MODELS TO HILBERT SPACE THEORIES OF THE TERM STRUCTURE		
15	A Term Structure Model and the Pricing of Interest Rate Derivatives Klaus Sandmann and Dieter Sondermann	255
16	A Yield-Factor Model of Interest Rates Darrell Duffie and Rui Kan	279
17	Characterising Gaussian Models of the Term Structure of Interest Rates D. P. Kennedy	303
18	Interest Rate Dynamics and Consistent Forward Rate Curves Tomas Bjork and Bent Jesper Christensen	313
19	Strings Attached Jean-Philippe Bouchaud, Nicolas Sagna, Rama Cont, Nicole El-Karoui and Marc Potters	333
	Index	339