ECONOMETRICS AND RISK MANAGEMENT

CONTENTS

LIST OF CONTRIBUTORS	vii
INTRODUCTION	ix
FAST SOLUTION OF THE GAUSSIAN COPULA MODEL Bjorn Flesaker	1
AN EMPIRICAL STUDY OF PRICING AND HEDGING COLLATERALIZED DEBT OBLIGATION (CDO) Lijuan Cao, Zhang Jingqing, Lim Kian Guan and Zhonghui Zhao	15
THE SKEWED t DISTRIBUTION FOR PORTFOLIO CREDIT RISK Wenbo Hu and Alec N. Kercheval	55
CREDIT RISK DEPENDENCE MODELING WITH DYNAMIC COPULA: AN APPLICATION TO CDO TRANCHES Daniel Totouom and Margaret Armstrong	85
PERTURBED GAUSSIAN COPULA Jean-Pierre Fouque and Xianwen Zhou	103
THE DETERMINANTS OF DEFAULT CORRELATIONS Kanak Patel and Ricardo Pereira	123

vi CONTENTS

DATA MINING PROCEDURES IN GENERALIZED COX REGRESSIONS Zhen Wei	159
JUMP DIFFUSION IN CREDIT BARRIER	
MODELING: A PARTIAL INTEGRO-DIFFERENTIAL EQUATION APPROACH	
Jingyi Zhu	195
BOND MARKETS WITH STOCHASTIC VOLATILITY	
Rafael DeSantiago, Jean-Pierre Fouque and Knut Solna	215
TWO-DIMENSIONAL MARKOVIAN	
MODEL FOR DYNAMICS OF AGGREGATE	
CREDIT LOSS	
Andrei V. Lopatin and Timur Misirpashaev	243
CREDIT DERIVATIVES AND RISK AVERSION	,
Tim Leung, Ronnie Sircar and Thaleia Zariphopoulou	275
6, T. F.	