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Titolo	Levy processes in credit risk [[electronic resource] /] / Wim Schoutens and Jessica Cariboni
Pubbl/distr/stampa	[Hoboken, NJ], : John Wiley & Sons, c2009
ISBN	0-470-68506-9 1-119-20652-9 1-282-29172-6 9786612291722 0-470-74903-2
Descrizione fisica	1 online resource (201 p.)
Collana	The Wiley Finance Series ; ; v.519
Altri autori (Persone)	CariboniJessica
Disciplina	332.7 658.88015195
Soggetti	Credit - Management - Mathematical models Risk management - Mathematical models Levy processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	L evy Processes in Credit Risk; Contents; Preface; Acknowledgements; PART I: INTRODUCTION; 1 An Introduction to Credit Risk; 2 An Introduction to L evy Processes; PART II: SINGLE-NAME MODELLING; 3 Single-Name Credit Derivatives; 4 Firm-Value L evy Models; 5 Intensity L evy Models; PART III: MULTIVARIATE MODELLING; 6 Multivariate Credit Products; 7 Collateralized Debt Obligations; 8 Multivariate Index Modelling; PART IV: EXOTIC STRUCTURED CREDIT RISK PRODUCTS; 9 Credit CPPIs and CPDOs; 10 Asset-Backed Securities; Bibliography; Index
Sommario/riassunto	This book is an introductory guide to using Levy processes for credit risk modelling. It covers all types of credit derivatives: from the single name vanillas such as Credit Default Swaps (CDSs) right through to structured credit risk products such as Collateralized Debt Obligations (CDOs), Constant Proportion Portfolio Insurances (CPPIs) and Constant Proportion Debt Obligations (CPDOs) as well as new advanced rating models for Asset Backed Securities (ABSs). Jumps and extreme events

are crucial stylized features, essential in the modelling of the very volatile credit markets - the recent

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Titolo	Applied quantitative methods for trading and investment / / edited by Christian L. Dunis, Jason Laws, and Patrick Naim
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ISBN	9786610273980 9781280273988 1280273984 9780470299500 0470299509 9780470871348 0470871342 9780470013267 0470013265
Descrizione fisica	1 online resource (427 p.)
Collana	Wiley finance series
Altri autori (Persone)	DunisChristian LawsJason NaimPatrick
Disciplina	332.6/01/5195
Soggetti	Finance - Mathematical models Investments - Mathematical models Speculation - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Applied Quantitative Methods for Trading and Investment; Contents; About the Contributors; Preface; 1 Applications of Advanced Regression Analysis for Trading and Investment; Abstract; 1.1 Introduction; 1.2 Literature review; 1.3 The exchange rate and related financial data; 1.4 Benchmark models: theory and methodology; 1.5 Neural network models: theory and methodology; 1.6 Forecasting accuracy and trading

simulation; 1.7 Concluding remarks; References; 2 Using Cointegration to Hedge and Trade International Equities; Abstract; 2.1 Introduction; 2.2 Time series modelling and cointegration
2.3 Implicit hedging of unknown common risk factors2.4 Relative value and statistical arbitrage; 2.5 Illustration of cointegration in a controlled simulation; 2.6 Application to international equities; 2.7 Discussion and conclusions; References; 3 Modelling the Term Structure of Interest Rates: An Application of Gaussian Affine Models to the German Yield Curve; Abstract; 3.1 Introduction; 3.2 Background issues on asset pricing; 3.3 Duffie-Kan affine models of the term structure; 3.4 A forward rate test of the expectations theory; 3.5 Identification
3.6 Econometric methodology and applications3.7 Estimation results; 3.8 Conclusions; References; 4 Forecasting and Trading Currency Volatility: An Application of Recurrent Neural Regression and Model Combination; Abstract; 4.1 Introduction; 4.2 The exchange rate and volatility data; 4.3 The GARCH (1,1) benchmark volatility forecasts; 4.4 The neural network volatility forecasts; 4.5 Model combinations and forecasting accuracy; 4.6 Foreign exchange volatility trading models; 4.7 Concluding remarks and further work; Acknowledgements; Appendix A; Appendix B; Appendix C; Appendix D; Appendix E Appendix FAppendix G; References; 5 Implementing Neural Networks, Classification Trees, and Rule Induction Classification Techniques: An Application to Credit Risk; Abstract; 5.1 Introduction; 5.2 Data description; 5.3 Neural networks for classification in Excel; 5.4 Classification tree in Excel; 5.5 See5 classifier; 5.6 Conclusions; References; 6 Switching Regime Volatility: An Empirical Evaluation; Abstract; 6.1 Introduction; 6.2 The model; 6.3 Maximum likelihood estimation; 6.4 An application to foreign exchange rates; 6.5 Conclusion; References
Appendix A: Gauss code for maximum likelihood for variance switching models7 Quantitative Equity Investment Management with Time-Varying Factor Sensitivities; Abstract; 7.1 Introduction; 7.2 Factor sensitivities defined; 7.3 OLS to estimate factor sensitivities: a simple, popular but inaccurate method; 7.4 WLS to estimate factor sensitivities: a better but still sub-optimal method; 7.5 The stochastic parameter regression model and the Kalman filter: the best way to estimate factor sensitivities; 7.6 Conclusion; References
8 Stochastic Volatility Models: A Survey with Applications to Option Pricing and Value at Risk

Sommario/riassunto

This book provides a manual on quantitative financial analysis. Focusing on advanced methods for modelling financial markets in the context of practical financial applications, it will cover data, software and techniques that will enable the reader to implement and interpret quantitative methodologies, specifically for trading and investment. Includes contributions from an international team of academics and quantitative asset managers from Morgan Stanley, Barclays Global Investors, ABN AMRO and Credit Suisse First Boston.Fills the gap for a book on applied quantitative investment