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Nota di contenuto	Handbook of Volatility Models and Their Applications; Contents; Preface; Contributors; 1 Volatility Models; 1.1 Introduction; 1.2 GARCH; 1.2.1 Univariate GARCH; 1.2.1.1 Structure of GARCH Models; 1.2.1.2 Early GARCH Models; 1.2.1.3 Probability Distributions for z_t ; 1.2.1.4 New GARCH Models; 1.2.1.5 Explanation of Volatility Clustering; 1.2.1.6 Literature and Software; 1.2.1.7 Applications of Univariate GARCH; 1.2.2 Multivariate GARCH; 1.2.2.1 Structure of MGARCH Models; 1.2.2.2 Conditional Correlations; 1.2.2.3 Factor Models; 1.3 Stochastic Volatility; 1.3.1 Leverage Effect; 1.3.2 Estimation 1.3.3 Multivariate SV Models; 1.3.4 Model Selection; 1.3.5 Empirical Example: S&P 500; 1.3.6 Literature; 1.4 Realized Volatility; 1.4.1

Realized Variance; 1.4.1.1 Empirical Application; 1.4.2 Realized Covariance; 1.4.2.1 Realized Quadratic Covariation; 1.4.2.2 Realized Bipower Covariation; Acknowledgments; part one Autoregressive Conditional Heteroskedasticity and Stochastic Volatility; 2 Nonlinear Models for Autoregressive Conditional Heteroskedasticity; 2.1 Introduction; 2.2 The Standard GARCH Model; 2.3 Predecessors to Nonlinear GARCH Models; 2.4 Nonlinear ARCH and GARCH Models 2.4.1 Engle's Nonlinear GARCH Model2.4.2 Nonlinear ARCH Model; 2.4.3 Asymmetric Power GARCH Model; 2.4.4 Smooth Transition GARCH Model; 2.4.5 Double Threshold ARCH Model; 2.4.6 Neural Network ARCH and GARCH Models; 2.4.7 Time-Varying GARCH; 2.4.8 Families of GARCH Models and their Probabilistic Properties; 2.5 Testing Standard GARCH Against Nonlinear GARCH; 2.5.1 Size and Sign Bias Tests; 2.5.2 Testing GARCH Against Smooth Transition GARCH; 2.5.3 Testing GARCH Against Artificial Neural Network GARCH; 2.6 Estimation of Parameters in Nonlinear GARCH Models; 2.6.1 Smooth Transition GARCH 2.6.2 Neural Network GARCH2.7 Forecasting with Nonlinear GARCH Models; 2.7.1 Smooth Transition GARCH; 2.7.2 Asymmetric Power GARCH; 2.8 Models Based on Multiplicative Decomposition of the Variance; 2.9 Conclusion; Acknowledgments; 3 Mixture and Regime-Switching GARCH Models; 3.1 Introduction; 3.2 Regime-Switching GARCH Models for Asset Returns; 3.2.1 The Regime-Switching Framework; 3.2.2 Modeling the Mixing Weights; 3.2.3 Regime-Switching GARCH Specifications; 3.3 Stationarity and Moment Structure; 3.3.1 Stationarity; 3.3.2 Moment Structure 3.4 Regime Inference, Likelihood Function, and Volatility Forecasting3. 4.1 Determining the Number of Regimes; 3.4.2 Volatility Forecasts; 3.4.3 Application of MS-GARCH Models to Stock Return Indices; 3.5 Application of Mixture GARCH Models to Density Prediction and Value-at-Risk Estimation; 3.5.1 Value-at-Risk; 3.5.2 Data and Models; 3.5.3 Empirical Results; 3.6 Conclusion; Acknowledgments; 4 Forecasting High Dimensional Covariance Matrices; 4.1 Introduction; 4.2 Notation; 4.3 Rolling Window Forecasts; 4.3.1 Sample Covariance; 4.3.2 Observable Factor Covariance 4.3.3 Statistical Factor Covariance

Sommario/riassunto

A complete guide to the theory and practice of volatility models in financial engineering Volatility has become a hot topic in this era of instant communications, spawning a great deal of research in empirical finance and time series econometrics. Providing an overview of the most recent advances, *Handbook of Volatility Models and Their Applications* explores key concepts and topics essential for modeling the volatility of financial time series, both univariate and multivariate, parametric and non-parametric, high-frequency and low-frequency. *Featuring contributions f*
