
Contents

Part I Statistical Methods

Recent Advances in ARCH Modelling <i>Liudas Giraitis, Remigijus Leipus, Donatas Surgailis</i>	3
Intermittency, Long–Memory and Financial Returns <i>Raj Bhansali, Mark P. Holland, Piotr S. Kokoszka</i>	39
The Spectrum of Euro–Dollar <i>Vincent Brousseau</i>	69
Hölderian Invariance Principles and Some Applications for Testing Epidemic Changes <i>Alfredas Račkauskas, Charles Suquet</i>	109
Adaptive Detection of Multiple Change–Points in Asset Price Volatility <i>Marc Lavielle, Gilles Teyssière</i>	129
Bandwidth Choice, Optimal Rates and Adaptivity in Semiparametric Estimation of Long Memory <i>Marc Henry</i>	157
Wavelet Analysis of Nonlinear Long–Range Dependent Processes. Applications to Financial Time Series <i>Gilles Teyssière, Patrice Abry</i>	173
Prediction, Orthogonal Polynomials and Toeplitz Matrices. A Fast and Reliable Approximation to the Durbin–Levinson Algorithm <i>Djalil Kateb, Abdellatif Seghier, Gilles Teyssière</i>	239

Part II Economic Models

A Nonlinear Structural Model for Volatility Clustering
Andrea Gaunersdorfer, Cars Hommes 265

**Volatility Clustering in Financial Markets: Empirical Facts
and Agent-Based Models**
Rama Cont. 289

**The Microeconomic Foundations of Instability in Financial
Markets**
Alan Kirman 311

**A Minimal Noise Trader Model with Realistic Time Series
Properties**
Simone Alfarano, Thomas Lux 345

Long Memory and Hysteresis
Christian de Peretti 363