Contents

Functional Representation, Approximation, Bases and Wavelets .......... 1
James B. Ramsey

Part I Macroeconomics

Does Productivity Affect Unemployment? A Time-Frequency Analysis for the US .................................................. 23
Marco Gallegati, Mauro Gallegati, James B. Ramsey, and Willi Semmler

The Great Moderation Under the Microscope: Decomposition of Macroeconomic Cycles in US and UK Aggregate Demand .......... 47
Patrick M. Crowley and Andrew Hughes Hallett

Nonlinear Dynamics and Wavelets for Business Cycle Analysis .......... 73
Peter Martey Addo, Monica Billio, and Dominique Guégan

Part II Volatility and Asset Prices

Measuring the Impact Intradaily Events Have on the Persistent Nature of Volatility .................................................. 103
Mark J. Jensen and Brandon Whitcher

Wavelet Analysis and the Forward Premium Anomaly ..................... 131
Michaela M. Kiermeier

Oil Shocks and the Euro as an Optimum Currency Area ................ 143
Luís Aguiar-Conraria, Teresa Maria Rodrigues, and Maria Joana Soares

Wavelet-Based Correlation Analysis of the Key Traded Assets .......... 157
Jozef Baruník, Evžen Kočenda and Lukas Vacha
Part III  Forecasting and Spectral Analysis

Forecasting via Wavelet Denoising: The Random Signal Case .................. 187
Joanna Bruzda

Short and Long Term Growth Effects of Financial Crises .................... 227
Fredrik N.G. Andersson and Peter Karpestam

Measuring Risk Aversion Across Countries from the Consumption-CAPM: A Spectral Approach .................. 249
Ekaterini Panopoulou and Sarantis Kalyvitis