**Panel Vector Autoregression In R The Panelvar Package**

Ibss: Economics: 1999

Using R for Principles of Econometrics

This book surveys big data tools used in macroeconomic forecasting and addresses related econometric issues, including how to capture dynamic relationships among variables; how to select parsimonious models; how to deal with model uncertainty, instability, non-stationarity, and mixed frequency data; and how to evaluate forecasts, among others. Each chapter is self-contained with references, and provides solid background information, while also reviewing the latest advances in the field. Accordingly, the book offers a valuable resource for researchers, professional forecasters, and students of quantitative economics.

**Using R for Principles of Econometrics**

Thomas Piketty's Capital in the Twenty-First Century puts forth a logically consistent explanation for changes in income and wealth inequality patterns. However, while rich in data, the book provides no formal empirical testing for its theoretical causal chain. In this paper, I build a set of Panel SVAR models to check if inequality and capital share in the national income move up as the r-g gap grows. Using a sample of 19 advanced economies spanning over 30 years, I find no empirical evidence that dynamics move in the way Piketty suggests. Results are robust to several alternative estimates of r-g.

**Panel Data Econometrics with R**

This is a beginner's guide to applied econometrics using the free statistics software R. It provides and explains R solutions to most of the examples in 'Principles of Econometrics' by Hill, Griffiths, and Lim, fourth edition. 'Using R for Principles of Econometrics' requires no previous knowledge in econometrics or R programming, but elementary notions of statistics are helpful.

**IMF Staff papers, Volume 43 No. 3**

This paper assesses the determinants of NPLs in the Eastern Caribbean Currency Union...
(ECCU) and whether a deterioration in asset quality may result in negative feedback effects from the banking system to economic activity. The results suggest that the deterioration in asset quality can be attributed to both macroeconomic and bank-specific factors. Banks with stronger profitability and lower exposure to the construction sector and household loans tend to have lower NPLs. Further, some evidence indicates that foreign owned banks systematically have lower NPLs than domestic banks, pointing to the presence of important differences across bank practices with an impact on asset quality. Finally, the results emphasize the strength of macrofinancial feedback loops in the ECCU.

**Introduction to Econometrics**

Forecasting is required in many situations. Stocking an inventory may require forecasts of demand months in advance. Telecommunication routing requires traffic forecasts a few minutes ahead. Whatever the circumstances or time horizons involved, forecasting is an important aid in effective and efficient planning. This textbook provides a comprehensive introduction to forecasting methods and presents enough information about each method for readers to use them sensibly.

**Structural Vector Autoregressive Analysis**

Vector autoregressive (VAR) models are among the most widely used econometric tools in the fields of macroeconomics and financial economics. Much of what we know about the response of the economy to macroeconomic shocks and about how various shocks have contributed to the evolution of macroeconomic and financial aggregates is based on VAR models. VAR models also have been used successfully for economic and business forecasting, for modeling risk and volatility, and for the construction of forecast scenarios. Since the introduction of VAR models by C.A. Sims in 1980, the VAR methodology has continuously evolved. Even today important extensions and reinterpretations of the VAR framework are being developed. Examples include VAR models for mixed-frequency data, VAR models as approximations to DSGE models, factor-augmented VAR models, new tools for the identification of structural shocks in VAR models, panel VAR approaches, and time-varying parameter VAR models. This volume collects contributions from some of the leading VAR experts in the world on VAR methods and applications. Each paper highlights and synthesizes a new development in this literature in a way that is accessible to practitioners, to graduate students, and to readers in other fields.

**Non-Performing Loans in the ECCU**

The aging and migration megatrends and their impact on spatial—regional and local—labor market performance is the core theme of this book, and thus together define its scope and focus. The contributions provide an overview of key aging and migration issues in various countries together with analyses of their varied impacts on regional labor markets. Systematic database research and related empirical analyses are used to map out the complex and dynamic nature of these trends, while cutting-edge economic and modeling techniques are used to analyze them. In closing, the book critically reviews and assesses selected policy measures designed to cope with the effects of aging and migration on regional labor markets.

**Bayesian Vars**

R is a language and environment for data analysis and graphics. It may be considered an implementation of S, an award-winning language initially developed at Bell Laboratories since the late 1970s. The R project was initiated by Robert Gentleman and Ross Ihaka at the University of Auckland, New Zealand, in the early 1990s, and has been developed by an international team since mid-1997. Historically, econometricians have favored other computing environments, some of which have fallen by the wayside, and also a variety of packages with canned routines. We believe that
R has great potential in econometrics, both for research and for teaching. There are at least three reasons for this: (1) R is mostly platform independent and runs on Microsoft Windows, the Mac family of operating systems, and various flavors of Unix/Linux, and also on some more exotic platforms. (2) R is free software that can be downloaded and installed at no cost from a family of mirror sites around the globe, the Comprehensive R Archive Network (CRAN); hence students can easily install it on their own machines. (3) R is open-source software, so that the full source code is available and can be inspected to understand what it really does, learn from it, and modify and extend it. We also like to think that platform independence and the open-source philosophy make R an ideal environment for reproducible econometric research.

**Handbook of Research Methods and Applications in Economic Geography**

Love and Zicchino apply vector autoregression to firm-level panel data from 36 countries to study the dynamic relationship between firms' financial conditions and investment. They argue that by using orthogonalized impulse-response functions they are able to separate the "fundamental factors" (such as marginal profitability of investment) from the "financial factors" (such as availability of internal finance) that influence the level of investment. The authors find that the impact of the financial factors on investment, which they interpret as evidence of financing constraints, is significantly larger in countries with less developed financial systems. The finding emphasizes the role of financial development in improving capital allocation and growth. This paper—a product of Finance, Development Research Group—is part of a larger effort in the group to study access to finance.

**Structural Vector Autoregressive Analysis**

IBSS is the essential tool for librarians, university departments, research institutions and any public or private institution whose work requires access to up-to-date and comprehensive knowledge of the social sciences.

**Introduction to Multiple Time Series Analysis**

For courses in Introductory Econometrics Engaging applications bring the theory and practice of modern econometrics to life. Ensure students grasp the relevance of econometrics with Introduction to Econometrics—the text that connects modern theory and practice with motivating, engaging applications. The Third Edition Update maintains a focus on currency, while building on the philosophy that applications should drive the theory, not the other way around. This program provides a better teaching and learning experience—for you and your students. Here’s how: Personalized learning with MyEconLab—recommendations to help students better prepare for class, quizzes, and exams—and ultimately achieve improved comprehension in the course. Keeping it current with new and updated discussions on topics of particular interest to today’s students. Presenting consistency through theory that matches application. Offering a full array of pedagogical features. Note: You are purchasing a standalone product; MyEconLab does not come packaged with this content. If you would like to purchase both the physical text and MyEconLab search for ISBN-10: 0133595420 ISBN-13: 9780133595420. That package includes ISBN-10: 0133486877 /ISBN-13: 9780133486872 and ISBN-10: 0133487679/ ISBN-13: 9780133487671. MyEconLab is not a self-paced technology and should only be purchased when required by an instructor.

**Physical Capital Development and Energy Transition in Latin America and the Caribbean**

This book provides coherent theoretical and empirical analysis of firms’ investment and financing decisions. It assesses the role of uncertainty, financial imperfections, corporate governance and taxation. Evidence is obtained using several unique and high quality microeconomic data-sets, which explore features seldom
Panel Data Econometrics

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The Econometric Analysis of Non-Stationary Spatial Panel Data

Physical Capital Development and Energy Transition in Latin America and the Caribbean introduces the reader to applied theory and potential solutions to manage the transition from fossil energies to renewables given the resource wealth and infrastructural limitations of Latin American and Caribbean (LAC) countries. The work presents consistent empirical approaches and relevant econometric approaches
grounded in case studies that offer realistic portrayals of complex multidisciplinary phenomena. It provides policymakers with the knowledge needed for economic decision-making, especially regarding the energy transition and the physical capital development in the LAC (and similar developing regions). The work concludes by road mapping future LAC physical capital investment options to promote 21st-century sustainable energy development. Analyses the macroeconomics of physical capital and energy transition in LAC countries Uses case studies to draw pragmatic comparative energy policy implications Deploys econometric techniques to address empirical approaches on energy and development economics Discusses the effects of the energy transition on environmental degradation Links energy economics and public investment management

**Microeconometrics**

**The Oxford Handbook of Panel Data**

This monograph deals with spatially dependent nonstationary time series in a way accessible to both time series econometricians wanting to understand spatial econometrics, and spatial econometricians lacking a grounding in time series analysis. After charting key concepts in both time series and spatial econometrics, the book discusses how the spatial connectivity matrix can be estimated using spatial panel data instead of assuming it to be exogenously fixed. This is followed by a discussion of spatial nonstationarity in spatial cross-section data, and a full exposition of non-stationarity in both single and multi-equation contexts, including the estimation and simulation of spatial vector autoregression (VAR) models and spatial error correction (ECM) models. The book reviews the literature on panel unit root tests and panel cointegration tests for spatially independent data, and for data that are strongly spatially dependent. It provides for the first time critical values for panel unit root tests and panel cointegration tests when the spatial panel data are weakly or spatially dependent. The volume concludes with a discussion of incorporating strong and weak spatial dependence in non-stationary panel data models. All discussions are accompanied by empirical testing based on a spatial panel data of house prices in Israel.

**Forecasting: principles and practice**

State space models have gained tremendous popularity in recent years in as disparate fields as engineering, economics, genetics and ecology. After a detailed introduction to general state space models, this book focuses on dynamic linear models, emphasizing their Bayesian analysis. Whenever possible it is shown how to compute estimates and forecasts in closed form; for more complex models, simulation techniques are used. A final chapter covers modern sequential Monte Carlo algorithms. The book illustrates all the fundamental steps needed to use dynamic linear models in practice, using R. Many detailed examples based on real data sets are provided to show how to set up a specific model, estimate its parameters, and use it for forecasting. All the code used in the book is available online. No prior knowledge of Bayesian statistics or time series analysis is required, although familiarity with basic statistics and R is assumed.

**Firms' Investment and Finance Decisions**

Panel Data Econometrics with R provides a tutorial for using R in the field of panel data econometrics. Illustrated throughout with examples in econometrics, political science, agriculture and epidemiology, this book presents classic methodology and applications as well as more advanced topics and recent developments in this field including error component models, spatial panels and dynamic models. They have developed the software programming in R and host replicable material on the book’s accompanying website.
Panel Data Econometrics

This paper reviews recent advances in the specification and estimation of Bayesian Vector Autoregressive models (BVARs). After describing the Bayesian principle of estimation, we first present the methodology originally developed by Litterman (1986) and Doan et al. (1984) and review alternative priors. We then discuss extensions of the basic model and address issues in forecasting and structural analysis. An application to the estimation of a system of time-varying reaction functions for four European central banks under the European Monetary System (EMS) illustrates how some of the results previously presented may be applied in practice.

Understanding Migration with Macroeconomics

Model Reduction Methods for Vector Autoregressive Processes

Conceptual Econometrics Using R, Volume 41 provides state-of-the-art information on important topics in econometrics, including quantitative game theory, multivariate GARCH, stochastic frontiers, fractional responses, specification testing and model selection, exogeneity testing, causal analysis and forecasting, GMM models, asset bubbles and crises, corporate investments, classification, forecasting, nonstandard problems, cointegration, productivity and financial market jumps and co-jumps, among others. Presents chapters authored by distinguished, honored researchers who have received awards from the Journal of Econometrics or the Econometric Society Includes descriptions and links to resources and free open source R, allowing readers to not only use the tools on their own data, but also jumpstart their understanding of the state-of-the-art

Applied Econometrics with R

This paper examines the volatility and predictability of emerging stock markets. A range of measures suggests that, despite perceptions to the contrary, the volatility of emerging markets may have fallen rather than risen on average. Also, although the autocorrelations in emerging market returns appear to turn negative at horizons of a year or more, the magnitude of these return reversals is not that much larger than reversals in some mature markets. One interpretation of the results would be that emerging markets have not consistently been subject to fads or bubbles, or at least no more so than in some industrial countries.

Conceptual Econometrics Using R

This volume includes some of the papers presented at the 11th International Conference on Panel Data, Texas, June 2004, and other solicited papers that passed the refereeing process and includes such topics as dynamic panel data estimation, non-linear panel data methods and the phenomenal growth in non-stationary panel data econometrics.

Understanding Small-Island Developing States

The main purpose of this Handbook is to provide overviews and assessments of the state-of-the-art regarding research methods, approaches and applications central to economic geography. The chapters are written by distinguished researchers from a variet

VAR Models in Macroeconomics

This edited collection includes (but is not limited to) contributions in the form of chapters from the participants of the Workshop on the Macroeconomics of Migration at the University of Sheffield in June 2018. Migration is one of the most debated
issues currently and is a pervasive feature of our economies. While extensive academic work has looked at the microeconomic aspects of migration, an open question is to better understand the links between migration and macroeconomic aggregates, such as per capita GDP. This book explores this overarching question, which has hit the key political and social debates all over Europe. Countries that are traditionally viewed as hosting economies for immigrants, such as for instance the UK and Germany, are concerned by immigration, while sending countries, such as Southern and Eastern European countries, are concerned by emigration. The contributions in this edited collection analyse empirically and theoretically the challenges international economic migration generates both in sending and receiving countries, thus offering a comprehensive approach to the question asked above. The book looks at several important issues in the current debates related to the labour market effects of migration for natives, the bi-directional relation between taxation and migration, migration and the informal economy, migration and business cycle dynamics, and brain waste. This edited collection will be of interest to academics, practitioners and policy makers who wish to take a closer look at the macroeconomic effects of migration and learn more about the current challenges posed by immigration in some countries and emigration in others.

**Dynamic Linear Models with R**

Small island developing states (SIDS) are characterised by high economic, geographical and social vulnerability. These states are perceived as economically vulnerable, exhibiting poor economic performance, and embedding low levels of achieved well-being on most criteria. SIDS, which occupy very large parts of the world, face idiosyncratic development challenges largely owing to their susceptibility to external shocks. Still, these countries are all too often overlooked in the development research literature. Arising from a UNU-WIDER research project, this book provides in-depth research on the international dimensions of SIDS development experiences. Using a wealth of data, as well as case studies, the main topics examined comprise: aid, policies and growth; the costs of neglect, in terms of losses owing to a country falling into the fragile states group, of that country and those in its region; the composition of trade and the impact of external shocks, and the impact of remittances. The studies jointly provide valuable insights for small islands and other developing countries in the pursuit of sustainable growth and development. This book was published as a special issue of the Journal of Development Studies.

**Corporate Governance and Firm Performance**

This volume presents current developments in the fields of banking and finance from an international perspective. Featuring contributions from the 3rd International Conference on Banking and Finance Perspectives (ICBFP), this volume serves as a valuable forum for discussing current issues and trends in the banking and financial sectors, especially in light of the global economic challenges triggered by financial institutions. Using the latest theoretical models, new perspectives are brought to topics such as e-finance and e-banking, Islamic banking, capital flight, bank efficiency, risk assessment, bankruptcy, investment diversification, and insider trading. Offering an opportunity to explore the challenges of a rapidly changing industry, this volume will be of interest to academics, policy makers, and scholars in the fields of banking, insurance, and finance.

**Time Series and Panel Data Econometrics**

1. 1 Objective of the Study Vector autoregressive (VAR) models have become one of the dominant research tools in the analysis of macroeconomic time series during the last two decades. The great success of this modeling class started with Sims' (1980) critique of the traditional simultaneous equation models (SEM). Sims criticized the use of 'too many incredible restrictions' based on 'supposed a priori knowledge' in
large scale macroeconometric models which were popular at that time. Therefore, he advocated largely unrestricted reduced form multivariate time series models, unrestricted VAR models in particular. Ever since his influential paper these models have been employed extensively to characterize the underlying dynamics in systems of time series. In particular, tools to summarize the dynamic interaction between the system variables, such as impulse response analysis or forecast error variance decompositions, have been developed over the years. The econometrics of VAR models and related quantities is now well established and has found its way into various textbooks including inter alia Lütkepohl (1991), Hamilton (1994), Enders (1995), Hendry (1995) and Greene (2002). The unrestricted VAR model provides a general and very flexible framework that proved to be useful to summarize the data characteristics of economic time series. Unfortunately, the flexibility of these models causes severe problems: In an unrestricted VAR model, each variable is expressed as a linear function of lagged values of itself and all other variables in the system.

**Testing Piketty's Hypothesis on the Drivers of Income Inequality**

Focuses on corporate governance, broadly defined as the system of controls that helps corporations and other organizations effectively manage, administer, and direct economic resources. This book focuses on: the impact of deregulation and corporate structure on productive efficiency; and the effectiveness of the fraud triangle and SAS.

**Estimation and Inference in Short Panel Vector Autoregressions with Unit Roots and Cointegration**

Both sides of the institutions and growth debate have resorted largely to microeconometric techniques in testing hypotheses. In this paper, I build a panel structural vector autoregression (SVAR) model for a short panel of 119 countries over 10 years and find support for the institutions hypothesis. Controlling for individual fixed effects, I find that exogenous shocks to a proxy for institutional quality have a positive and statistically significant effect on GDP per capita. On average, a 1 percent shock in institutional quality leads to a peak 1.7 percent increase in GDP per capita after six years. Results are robust to using a different proxy for institutional quality. There are different dynamics for advanced economies and developing countries. This suggests diminishing returns to institutional quality improvements.

**Current Issues in Asian Tourism: Volume II**

Panel data econometrics has evolved rapidly over the past three decades. The field is of both theoretical and practical importance, and methods to deal with micro- and macroeconomic panel data are in high demand from practitioners. Applications in finance, development, trade, marketing, health, labor, and consumer economics attest to the usefulness of these methods in applied economics. This book is a comprehensive source on panel data. It contains 20 chapters edited by Professor Badi Baltagi—one of the leading econometricians in the area of panel data econometrics—and authored by renowned experts in the field. The chapters are divided into two sections. Part I examines new developments in theory. It includes panel cointegration, dynamic panel data models, incidental parameters and dynamic panel modeling, and panel data models for discrete choice. The chapters in Part II target applications of panel data, including health, labor, marketing, trade, productivity and macro applications in panels.

**Applied Economic Forecasting Using Time Series Methods**

The book is oriented to the practitioner.
Global Business Strategies in Crisis

This book is concerned with recent developments in time series and panel data techniques for the analysis of macroeconomic and financial data. It provides a rigorous, nevertheless user-friendly, account of the time series techniques dealing with univariate and multivariate time series models, as well as panel data models. It is distinct from other time series texts in the sense that it also covers panel data models and attempts at a more coherent integration of time series, multivariate analysis, and panel data models. It builds on the author's extensive research in the areas of time series and panel data analysis and covers a wide variety of topics in one volume. Different parts of the book can be used as teaching material for a variety of courses in econometrics. It can also be used as reference manual. It begins with an overview of basic econometric and statistical techniques, and provides an account of stochastic processes, univariate and multivariate time series, tests for unit roots, cointegration, impulse response analysis, autoregressive conditional heteroskedasticity models, simultaneous equation models, vector autoregressions, causality, forecasting, multivariate volatility models, panel data models, aggregation and global vector autoregressive models (GVAR). The techniques are illustrated using Microfit 5 (Pesaran and Pesaran, 2009, OUP) with applications to real output, inflation, interest rates, exchange rates, and stock prices.

A Guide to Modern Econometrics

Structural vector autoregressive (VAR) models are important tools for empirical work in macroeconomics, finance, and related fields. This book not only reviews the many alternative structural VAR approaches discussed in the literature, but also highlights their pros and cons in practice. It provides guidance to empirical researchers as to the most appropriate modeling choices, methods of estimating, and evaluating structural VAR models. The book traces the evolution of the structural VAR methodology and contrasts it with other common methodologies, including dynamic stochastic general equilibrium (DSGE) models. It is intended as a bridge between the often quite technical econometric literature on structural VAR modeling and the needs of empirical researchers. The focus is not on providing the most rigorous theoretical arguments, but on enhancing the reader's understanding of the methods in question and their assumptions. Empirical examples are provided for illustration.

Macroeconomic Forecasting in the Era of Big Data

Structural vector autoregressive (VAR) models are important tools for empirical work in macroeconomics, finance, and related fields. This book not only reviews the many alternative structural VAR approaches discussed in the literature, but also highlights their pros and cons in practice. It provides guidance to empirical researchers as to the most appropriate modeling choices, methods of estimating, and evaluating structural VAR models. The book traces the evolution of the structural VAR methodology and contrasts it with other common methodologies, including dynamic stochastic general equilibrium (DSGE) models. It is intended as a bridge between the often quite technical econometric literature on structural VAR modeling and the needs of empirical researchers. The focus is not on providing the most rigorous theoretical arguments, but on enhancing the reader's understanding of the methods in question and their assumptions. Empirical examples are provided for illustration.

Modelling Aging and Migration Effects on Spatial Labor Markets

A Guide to Modern Econometrics, 5th Edition has become established as a highly successful textbook. It serves as a guide to alternative techniques in econometrics with an emphasis on intuition and the practical implementation of these approaches. This fifth edition builds upon the success of its predecessors. The text has been carefully checked and updated, taking into account recent developments and insights.
It includes new material on causal inference, the use and limitation of p-values, instrumental variables estimation and its implementation, regression discontinuity design, standardized coefficients, and the presentation of estimation results.

Financial Development and Dynamic Investment Behavior

Current Issues in Asian Tourism: Volume II draws together a collection of papers from Current Issues in Asian Tourism (CIAT). CIAT was launched by the editors of Current Issues in Tourism in response to the growing number of papers about tourism in Asia received by the journal and the increasing number of authors from Asian countries. This volume focuses on three aspects of Asian tourism. Firstly, the section on marketing, consumption and demand for Asian tourism includes papers on mega events, creative experiences, World Heritage Sites and pollution. Secondly, a group of papers focus on sustainable Asian tourism destinations including papers on investment, climate change, energy and local food. Finally, there are two chapters on Asian tourism research methods including the use of photography and qualitative methods. The papers in this book were originally published in Current Issues in Asian Tourism.

Emerging Trends in Banking and Finance

Panel Data Econometrics: Theory introduces econometric modelling. Written by experts from diverse disciplines, the volume uses longitudinal datasets to illuminate applications for a variety of fields, such as banking, financial markets, tourism and transportation, auctions, and experimental economics. Contributors emphasize techniques and applications, and they accompany their explanations with case studies, empirical exercises and supplementary code in R. They also address panel data analysis in the context of productivity and efficiency analysis, where some of the most interesting applications and advancements have recently been made. Provides a vast array of empirical applications useful to practitioners from different application environments Accompanied by extensive case studies and empirical exercises Includes empirical chapters accompanied by supplementary code in R, helping researchers replicate findings Represents an accessible resource for diverse industries, including health, transportation, tourism, economic growth, and banking, where researchers are not always econometrics experts

Panel Data Econometrics with R

As the world is currently in the midst of financial and economic crises, this collection of expert contributions focuses on strategy formation and implementation at various organizational levels to address the challenges ahead. The latest economic turmoil and its ongoing impact on business performance are compelling top managers to develop effective business strategies and redefine the boundaries of their operational and strategic activities. On one hand, tremendous challenges in the competitive business environment have become a source of global threats for many small entrepreneurs. On the other, investors faced with today’s volatile economic conditions demand more gains on their capital investments to counter-balance the growing risk of global threats. This book explores the question as to whether it is possible to efficiently and effectively address these threats and obstacles. Are managers capable of planning and implementing strategic actions? What should the major managerial strategy be in order to overcome fluctuations in a market-oriented society? The strategies and practices recommended here are aimed to design continuous development competencies and contribute to the stability, recovery and sustainability of global business operations under volatile economic conditions. This refreshingly novel book seeks to establish managerial strategies and practices for effectively responding to challenges in the competitive business environment, as global volatility and fluctuations continue to worsen.

Institutions and Growth
Economic forecasting is a key ingredient of decision making both in the public and in the private sector. Because economic outcomes are the result of a vast, complex, dynamic and stochastic system, forecasting is very difficult and forecast errors are unavoidable. Because forecast precision and reliability can be enhanced by the use of proper econometric models and methods, this innovative book provides an overview of both theory and applications. Undergraduate and graduate students learning basic and advanced forecasting techniques will be able to build from strong foundations, and researchers in public and private institutions will have access to the most recent tools and insights. Readers will gain from the frequent examples that enhance understanding of how to apply techniques, first by using stylized settings and then by real data applications--focusing on macroeconomic and financial topics. This is first and foremost a book aimed at applying time series methods to solve real-world forecasting problems. Applied Economic Forecasting using Time Series Methods starts with a brief review of basic regression analysis with a focus on specific regression topics relevant for forecasting, such as model specification errors, dynamic models and their predictive properties as well as forecast evaluation and combination. Several chapters cover univariate time series models, vector autoregressive models, cointegration and error correction models, and Bayesian methods for estimating vector autoregressive models. A collection of special topics chapters study Threshold and Smooth Transition Autoregressive (TAR and STAR) models, Markov switching regime models, state space models and the Kalman filter, mixed frequency data models, nowcasting, forecasting using large datasets and, finally, volatility models. There are plenty of practical applications in the book and both EViews and R code are available online.