

Quantitative Models of Commodity Markets

Labys, Walter C.

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Quantitative Models Of Commodity Markets

Patricia Perkins



Quantitative Models Of Commodity Markets:

Quantitative Models of Commodity Markets Walter C. Labys, 1975 *Modeling and Forecasting Primary Commodity Prices* Walter C. Labys, 2017-03-02 Recent economic growth in China and other Asian countries has led to increased commodity demand which has caused price rises and accompanying price fluctuations not only for crude oil but also for the many other raw materials Such trends mean that world commodity markets are once again under intense scrutiny This book provides new insights into the modeling and forecasting of primary commodity prices by featuring comprehensive applications of the most recent methods of statistical time series analysis The latter utilize econometric methods concerned with structural breaks unobserved components chaotic discovery long memory heteroskedasticity wavelet estimation and fractional integration Relevant tests employed include neural networks correlation dimensions Lyapunov exponents fractional integration and rescaled range The price forecasting involves structural time series trend plus cycle and cyclical trend models Practical applications focus on the price behaviour of more than twenty international commodity markets

Commodity Models for Forecasting and Policy Analysis Walter C. Labys, Peter K. Pollak, 2024-02-01 Originally published in 1984 this book remains as relevant as when it was first published At that time the oil crises of the 1970s and the growing international debt burden highlighted the extent to which events in primary commodity markets continue to influence the economies of developing and industrialized economies alike Commodity modelling has become a valuable tool in efforts to predict and understand the behaviour of commodity markets and thereby reduce their fluctuations This book provides an overview of the nature of the different types of commodity model as well as their diverse applications In non technical language the reader is introduced to the underlying modelling methodologies including their advantages limitations and commodity specific implications The book will be of interest to commodity economists traders and analysts economic planners and those involved in agricultural mineral and energy modelling

Quantitative Methods for Economics and Finance J.E. Trinidad-Segovia, Miguel Ángel Sánchez-Granero, 2021-02-12 This book is a collection of papers for the Special Issue Quantitative Methods for Economics and Finance of the journal Mathematics This Special Issue reflects on the latest developments in different fields of economics and finance where mathematics plays a significant role The book gathers 19 papers on topics such as volatility clusters and volatility dynamic forecasting stocks indexes cryptocurrencies and commodities trade agreements the relationship between volume and price trading strategies efficiency regression utility models fraud prediction or intertemporal choice

[A Survey of Recent U.S. Developments in International Agricultural Trade Models](#) Robert L. Thompson, 1981 Extract This report critically reviews econometrically estimated export demand equations multiregion world trade models including nonspatial and spatial price equilibrium models and trade flow and market share models Both single and multiple product models are treated The report describes each modeling approach and its distinguishing characteristics surveys the recent research identifies technical and empirical problems and evaluates its

contribution to the objectives of agricultural trade modeling The report ends with an appraisal of the state of the art and recommends directions for future research and modeling work on agricultural trade

World Metal Markets Patricia Perkins,1997-10-28 The United States holds strategic stockpiles of nearly 100 industrial minerals metals and other commodities These stockpiles have influenced the world commodity markets in many ways This work brings together in one place documentary and statistical evidence about the size and nature of the U S strategic stockpiles and the ways in which this influence has been evidenced in markets for the important industrial metals

Modeling Mineral and Energy Markets Walter C. Labys,2012-12-06 This book provides a framework for analyzing and forecasting a variety of mineral and energy markets and related industries Such modeling activity has been at the forefront of the economic and engineering professions for some time having received a major stimulus following the first oil price shock in 1973 Since that time other shocks have affected these markets and industries causing disequilibrium economic adjustments which are difficult to analyze and to predict Moreover geopolitics remains an important factor which can destabilize crude oil markets and associated refining industries Mineral and energy modeling consequently has become a major interest of energy related corporations mining and drilling companies metal manufacturers public utilities investment banks national government agencies and international organizations This book hopes to advance mineral and energy modeling as follows 1 The modeling process is presented sequentially by leading the model builder from model specification estimation simulation and validation to practical model applications including explaining history analyzing policy and market and price forecasting 2 New developments in modeling approaches are presented which encompass econometric market and industry models spatial equilibrium and programming models optimal resource depletion models input output models economic sector models and macro oriented energy interaction models including computable general equilibrium 3 The verification and application of the models is considered not only individually but also in relation to the performance of alternative modeling approaches and 4 The modeling framework includes a perspective on new directions so that the present model building advice will extend into the future

Agricultural Marketing James Vercauteren,2012-01-11 The price of food has become very volatile in recent years for a variety of reasons including a strengthened connection between the prices of agricultural commodities and other commodities such as oil and metals more volatile production due to more frequent droughts and floods and a rising demand for biofuels Understanding the determinants of agricultural commodity prices and the connections between prices has become a high priority for academics and applied economists who are interested in agricultural marketing and trade policy analysis and international rural development This book builds on the various theories of commodity price relationships in competitive markets over space time and form It also builds on the various theories of commodity price relationships in markets that are non competitive because processing firms exploit market power private information distorts commodity bidding and bargaining is required to establish prices when the marketing transaction involves a single seller and buyer Each

chapter features a spreadsheet model to analyze a particular real world case study or plausible scenario and issues considered include the reasons for commodity price differences across regions the connection between the release of information and the rapid adjustment in a network of commodity prices the specific linkage between energy and food prices bidding strategies by large exporters who compete in import tenders The simulation results that are obtained from the spreadsheet models reveal many important features of commodity prices The models are also well suited for additional what if analysis such as examining how the pattern of trade in agricultural commodities may change if shipping becomes more expensive because of substantial increase in the world price of oil Model building and the analysis of the simulation results is a highly effective way to develop critical thinking skills and to view agricultural commodity prices in a rigorous and unique way This is an ideal resource for economics students looking to gain develop skills in the areas of Agricultural Marketing Commodity Price Analysis Models of Commodity Markets Quantitative Methods and Commodity Futures Markets *Energy Modelling Studies and Conservation* Sam Stuart,2013-10-22 *Energy Modelling Studies and Conservation* documents the proceedings of seminar of the United Nations Economic Commission for Europe held in Washington D C on 24 28 March 1980 The volume begins with a Seminar Theme Paper that identifies background policy issues that lead to modeling discusses points of view involved in energy policy modeling defines the context of a set of energy conservation problems or questions being analyzed and provides a forward looking view of the subject and its problems This is followed by 54 papers that are organized into three main topics 1 energy models of major interest to individual countries 2 the interaction between energy conservation measures and the economy and 3 the international aspects of energy conservation models The papers on Topic 1 cover forecasting methodologies demand and conservation studies and electricity and supply studies The papers on Topic 2 present the experiences in countries such as Norway UK the USSR and US The papers on Topic 3 include studies on energy conservation policies in France Germany and Italy and the MARKAL multi period linear programming model for joint research and development in the field of new energy technologies of the 17 countries of the International Energy Agency

Analyses in Macroeconomic Modelling Andrew J. Hughes Hallett,Peter McAdam,2012-12-06 *Macroeconomic Modelling* has undergone radical changes in the last few years There has been considerable innovation in developing robust solution techniques for the new breed of increasingly complex models Similarly there has been a growing consensus on their long run and dynamic properties as well as much development on existing themes such as modelling expectations and policy rules This edited volume focuses on those areas which have undergone the most significant and imaginative developments and brings together the very best of modelling practice We include specific sections on I Solving Large Macroeconomic Models II Rational Expectations and Learning Approaches III Macro Dynamics and IV Long Run and Closures All of the contributions offer new research whilst putting their developments firmly in context and as such will influence much future research in the area It will be an invaluable text for those in policy institutions as well as academics and advanced students in the fields of

economics mathematics business and government Our contributors include those working in central banks the IMF European Commission and established academics

Rational Expectations and Efficiency in Futures Markets Barry Goss,2005-10-09 Do traders in futures markets make use of all relevant information and is this reflected in prices This collection of original essays by a team of international economists considers these and other questions central to futures markets

Electricity Derivatives René Aid,2015-01-14 Offering a concise but complete survey of the common features of the microstructure of electricity markets this book describes the state of the art in the different proposed electricity price models for pricing derivatives and in the numerical methods used to price and hedge the most prominent derivatives in electricity markets namely power plants and swings The mathematical content of the book has intentionally been made light in order to concentrate on the main subject matter avoiding fastidious computations Wherever possible the models are illustrated by diagrams The book should allow prospective researchers in the field of electricity derivatives to focus on the actual difficulties associated with the subject It should also offer a brief but exhaustive overview of the latest techniques used by financial engineers in energy utilities and energy trading desks

The Distributional Impacts of Trade Jakob Engel,Deeksha Kokas,Gladys Lopez-Acevedo,Maryla Maliszewska,2021-06-09 Trade is a well established driver of growth and poverty reduction But changes in trade policy also have distributional impacts that create winners and losers It is vital to understand and clearly communicate how trade affects economic well being across all segments of the population as well as how policies can more effectively ensure that the gains from trade are distributed more widely The Distributional Impacts of Trade Empirical Innovations Analytical Tools and Policy Responses provides a deeper understanding of the distributional effects of trade across regions industries and demographic groups within countries over time It includes an overview chapter 1 a review of innovations in empirical and theoretical work covering the impacts of trade at the subnational level chapter 2 highlights from empirical case studies on Bangladesh Brazil Mexico South Africa and Sri Lanka chapter 3 and a policy agenda to improve distributional outcomes from trade chapter 4 This book comes at a time when the shock from COVID 19 coronavirus adds to an already uncertain trade policy environment in which the value of the multilateral trading system has been under increased scrutiny A better understanding of how trade affects distributional outcomes can lead to more inclusive policies and support the ability of countries to maximize broad based benefits from trade

Bibliographies and Literature of Agriculture ,1978

Primary Commodity Markets and Models Walter C. Labys,1987

Market Risk Analysis, Value at Risk Models Carol Alexander,2009-02-09 Written by leading market risk academic Professor Carol Alexander Value at Risk Models forms part four of the Market Risk Analysis four volume set Building on the three previous volumes this book provides by far the most comprehensive rigorous and detailed treatment of market VaR models It rests on the basic knowledge of financial mathematics and statistics gained from Volume I of factor models principal component analysis statistical models of volatility and correlation and copulas from Volume II and from Volume III knowledge of pricing

and hedging financial instruments and of mapping portfolios of similar instruments to risk factors A unifying characteristic of the series is the pedagogical approach to practical examples that are relevant to market risk analysis in practice All together the Market Risk Analysis four volume set illustrates virtually every concept or formula with a practical numerical example or a longer empirical case study Across all four volumes there are approximately 300 numerical and empirical examples 400 graphs and figures and 30 case studies many of which are contained in interactive Excel spreadsheets available from the accompanying CD ROM Empirical examples and case studies specific to this volume include Parametric linear value at risk VaR models normal Student t and normal mixture and their expected tail loss ETL New formulae for VaR based on autocorrelated returns Historical simulation VaR models how to scale historical VaR and volatility adjusted historical VaR Monte Carlo simulation VaR models based on multivariate normal and Student t distributions and based on copulas Examples and case studies of numerous applications to interest rate sensitive equity commodity and international portfolios Decomposition of systematic VaR of large portfolios into standard alone and marginal VaR components Backtesting and the assessment of risk model risk Hypothetical factor push and historical stress tests and stress testing based on VaR and ETL

The World Scientific Handbook Of Futures Markets Anastasios G Malliaris,William T Ziemba,2015-08-06 The World Scientific Handbook of Futures Markets serves as a definitive source for comprehensive and accessible information in futures markets The emphasis is on the unique characteristics of futures markets that make them worthy of a special volume In our judgment futures markets are currently undergoing remarkable changes as trading is shifting from open outcry to electronic and as the traditional functions of hedging and speculation are extended to include futures as an alternative investment vehicle in traditional portfolios The unique feature of this volume is the selection of five classic papers that lay the foundations of the futures markets and the invitation to the leading academics who do work in the area to write critical surveys in a dozen important topics **Signed path dependence in financial markets** Fabio Dias,2021-02-17 In Signed path dependence in financial markets Applications and implications computer scientist and academic Fabio Dias delves into cutting edge techniques at the intersection of machine learning time series analysis and finance This comprehensive guide bridges theory and application offering readers insights into predictive modeling algorithmic trading and the nuanced dynamics of option pricing Dias combines rigorous econometric methods with hands on machine learning approaches presenting a toolkit for anyone looking to leverage data driven insights to navigate and predict complex financial markets An essential read for practitioners researchers and students of financial engineering and quantitative finance *Proceedings of the 2024 2nd International Conference on Economic Management, Financial Innovation and Public Service (EMFIPS 2024)* Peng Dou,Keying Zhang,2025-06-08 This is an open access book 2024 2th International Conference on Economic Management Financial Innovation and Public Service EMFIPS 2024 will be held from December 28 to 29 in Cangzhou China The conference is dedicated to building an academic exchange platform for experts and scholars in the fields of economic

management financial innovation and public services The concept of the conference is to allow scientists scholars engineers and students from universities and industries around the world to showcase ongoing research activities thus promoting research relationships between universities and industries Economic development provides a basic material foundation for public services and public services lay a good social foundation for economic development The conference provides an opportunity for delegates to meet face to face to exchange new ideas and applied experiences to establish business or research relationships and to find global partners for future collaborations Global Commodities Murad Harasheh,2021-02-04 For many academics students and professionals the field of commodities is a black box This book explores commodities in a holistic manner presenting concepts from a multidisciplinary business and financial perspective and offering a panoramic view of the global commodity business and markets In this book the author presents core issues related to global commodities with recent data including COVID 19 The book introduces the key physical commodities traded globally and some related issues such as the global supply chain global trading transportation storage and how to finance global commodity trades Then it discusses how global commodity businesses and traders manage global risks related to commodity production generation or extraction transportation storage the final delivery and currency exchange Additionally the book discusses financial commodities the origins of global commodity derivatives and exchanges the rationale behind the birth of commodity futures and trading hedging speculation financialization and manipulation of commodity markets and how financial trading is executed in real life In the last section the author also discusses sustainability issues related to global commodities and the financial valuation aspects of the global commodity businesses supported by examples from real cases with recent data

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