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Commodities and commodity derivatives

*Modeling and Pricing
for Agriculturals, Metals and Energy*

HELYETTE GEMAN

Commodities And Commodity Derivatives Modeling And Pricing For Agriculturals Metals And Energy Hardcover

**Giorgio Consigli, Silvana
Stefani, Giovanni Zambruno**



Commodities And Commodity Derivatives Modeling And Pricing For Agriculturals Metals And Energy Hardcover:

Commodities and Commodity Derivatives Helyette Geman, 2005-03-11 The last few years have been a watershed for the commodities cash and derivatives industry. New regulations and products have led to an explosion in the commodities markets creating a new asset for investors that includes hedge funds as well as University endowments and has resulted in a spectacular growth in spot and derivative trading. This book covers hard and soft commodities, energy, agriculture, and metals and analyses Economic and geopolitical issues in commodities markets, Commodity price and volume risk, Stochastic modelling of commodity spot prices and forward curves, Real options valuation and hedging of physical assets in the energy industry. It is required reading for energy companies and utilities practitioners, commodity cash and derivatives traders in investment banks, the Agrifood business, Commodity Trading Advisors (CTAs) and Hedge Funds. In *Commodities and Commodity Derivatives* Helyette Geman shows her powerful command of the subject by combining a rigorous development of its mathematical modelling with a compact institutional presentation of the arcane characteristics of commodities that makes the complex analysis of commodities derivative securities accessible to both the academic and practitioner who wants a deep foundation and a breadth of different market applications. It is destined to be a must have on the subject. Robert Merton, Professor Harvard Business School. A marvelously comprehensive book of interest to academics and practitioners alike by one of the world's foremost experts in the field. Oldrich Vasicek, founder KMV. **The British National Bibliography** Arthur James Wells, 2005. *Commodity Derivatives* Zaizhi Wang, 2011. Commodity prices have been rising at an unprecedented pace over the last years making commodity derivatives more and more popular in many sectors like energy, metals, and agricultural products. The quick development of commodity market as well as commodity derivative market results in a continuously uprising demand of accuracy and consistency in commodity derivative modeling and pricing. The specification of commodity modeling is often reduced to an appropriate representation of convenience yield, intrinsic seasonality, and mean reversion of commodity price. As a matter of fact, convenience yield can be extracted from forward strip curve and then be added as a drift term into pricing models such as Black-Scholes model, local volatility model, and stochastic volatility model. Besides those common models, some specific commodity models specially emphasize on the importance of convenience yield, seasonality, or mean reversion feature. By giving the stochasticity to convenience yield, Gibson-Schwartz model interprets the term structure of convenience yield directly in its model parameters which makes the model extremely popular amongst researchers and market practitioners in commodity pricing. Gabillon model, on the other hand, focuses on the feature of seasonality and mean reversion, adding a stochastic long term price to correlate spot price. In this thesis, we prove that there is mathematical equivalence relation between Gibson-Schwartz model and Gabillon model. Moreover, inspired by the idea of Gyngy, we show that Gibson-Schwartz model and Gabillon model can reduce to one factor model with explicitly calculated marginal distribution under certain conditions which contributes to find the analytic formulas for forward and

vanilla options Some of these formulas are new to our knowledge and other formulas confirm with the earlier results of other researchers Indeed convenience yield seasonality and mean reversion play a very important role but for accurate pricing hedging and risk management it is also critical to have a good modeling of the dynamics of volatility in commodity markets as this market has very fluctuating volatility dynamics While the formers seasonality mean reversion and convenience yield have been highly emphasized in the literature on commodity derivatives pricing the latter the dynamics of the volatility has often been forgotten The family of stochastic volatility model is introduced to strengthen the dynamics of the volatility capturing the dynamic smile of volatility surface thanks to a stochastic process on volatility itself It is a very important characteristic for pricing derivatives of long maturity Stochastic volatility model also corrects the problem of opposite underlying volatility correlation against market data in many other models by introducing correlation parameter explicitly The most popular stochastic volatility models include Heston model Piterbarg model SABR model etc As pointed out by Piterbarg the need of time dependent parameters in stochastic volatility models is real and serious It is because in one hand stochastic volatility models with constant parameters are generally incapable of fitting market prices across option expiries and in the other hand exotics do not only depend on the distribution of the underlying at the expiry but on its dynamics through all time This contradiction implies the necessity of time dependent parameters In this thesis we extend Piterbarg s idea to the whole family of stochastic volatility model making all the stochastic volatility models having time dependent parameters and show various formulas for vanilla option price by employing various techniques such as characteristic function Fourier transform small error perturbation parameter averaging etc

Modeling and Forecasting Primary Commodity Prices Walter C. Labys,2006 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 Commodity Trade and Finance

Michael Tamvakis,2015 This second edition contain has been fully revised and restructured and contains 4 new chapters including oil refining electricity and price risk management for energy metals and agricultural commodities **Energy**

Commodities María del Carmen Frau Gomila,2022 This thesis focuses on the valuation of standard European call and put options of which the underlyings are the prices of futures contracts on two energy commodities specifically West Texas Intermediate WTI crude oil Chapter 1 and Henry Hub HH natural gas Chapter 2 Both are quoted in USD and listed in the New York Commodities Exchange NY MEX which specialises in derivatives futures and options of agricultural products precious metals and energy commodities European spread options are also considered Chapter 3 In order to define pricing it is necessary to start by establishing a model for the underlying prices in each case working with futures prices the focus is on term structure models where the time to maturity will be relevant The starting point is the model proposed in Trolle ii the cost of carry is stochastic iii the correlation is negative between spot prices and their cost of carry iv there is a mean reversion in spot prices due to the aforementioned negative correlation and v the volatility of futures prices is stochastic and

declining with the expiration of the contract Samuelson effect Commodity Option Pricing Iain J. Clark, 2014-03-05

Commodity Option Pricing A Practitioner's Guide covers commodity option pricing for quantitative analysts, traders or structurers in banks, hedge funds and commodity trading companies. Based on the author's industry experience with commodity derivatives, this book provides a thorough and mathematical introduction to the various market conventions and models used in commodity option pricing. It introduces the various derivative products typically traded for commodities and describes how these models can be calibrated and used for pricing and risk management. This book has been developed with input from traders and features examples using real world data together with relevant up to date academic research. This book includes practical descriptions of market conventions and quote codes used in commodity markets alongside typical products seen in broker quotes and used in calibration. Also discussed are commodity models and their mathematical derivation and volatility surface modelling for traded commodity derivatives. Gold, silver and other precious metals are addressed including gold forward and gold lease rates as well as copper, aluminium and other base metals, crude oil and natural gas, refined energy and electricity. There are also sections on the products encountered in commodities such as crack spread and spark spread options and alternative commodities such as carbon emissions, weather derivatives, bandwidth and telecommunications, trading plastics and freight. Commodity Option Pricing is ideal for anyone working in commodities or aiming to make the transition into the area as well as academics needing to familiarize themselves with the industry conventions of the commodity markets.

Commodity Markets and Derivatives, **Commodity Price Dynamics** Craig Pirrong, 2011-10-31

Commodities have become an important component of many investors' portfolios and the focus of much political controversy over the past decade. This book utilizes structural models to provide a better understanding of how commodities prices behave and what drives them. It exploits differences across commodities and examines a variety of predictions of the models to identify where they work and where they fail. The findings of the analysis are useful to scholars, traders and policy makers who want to better understand often puzzling and extreme movements in the prices of commodities from aluminium to oil to soybeans to zinc.

Commodity Modeling and Pricing Peter V. Schaeffer, 2008-10-06

Commodity Modeling and Pricing provides extensions and applications of state of the art methods for analyzing resource commodity behavior. Drawing from the seminal work of Professor Walter Labys on the development of econometric methods for forecasting commodity prices, this collection of essays features expert contributors ranging from practitioners in private industry, public sector and nongovernmental organizations to scholars in higher education, all of whom were Labys's former students or collaborators. Filled with in depth insights and expert advice, Commodity Modeling and Pricing contains the information you need to excel in this demanding environment.

Commodity Trade and Finance Michael N. Tamvakis, 2015

What affects the supply of oil? How important is the weather in determining grain prices? Why has the price of copper skyrocketed? This unique book analyses the economics of key commodity groups including energy,

agriculture and metals It examines the supply demand fundamentals of several major and minor commodities physical characteristics production and consumption patterns trade flows and pricing mechanisms It also explains the main tools used to hedge price risk such as futures options and swaps This second edition has been fully revised and restructured and contains four new chapters including oil refining electricity and price risk management for energy metals and agricultural commodities This book is an indispensable reference text for students academics and those working in the commodity business

Commodity Derivatives Neil C. Schofield, 2011-02-25 In *Commodity Derivatives Markets and Applications* Neil Schofield provides a complete and accessible reference for anyone working in or studying commodity markets and their associated derivatives Dealing primarily with over the counter structures the book provides extensive coverage of both hard and soft commodities including gold crude oil electricity plastics emissions and agricultural products Using structures unique to the individual market each chapter includes an explanation of the commodity and an analysis of its physical market discussion on the typical patterns of demand and supply and the main factors that will influence the price of the commodity and the main products Each chapter focuses on how the products could be used along the physical supply chain and seeks to identify the main market risks and how they can be hedged The book then brings into perspective how the structuring banks hedge their own resultant exposure and examines the attraction of OTC investment structures for the wholesale market *Commodity Derivatives Markets and Applications* is essential reading for those wishing to learn about the main features of the commodity markets the mechanics of derivatives and how they are applied

Commodity Derivatives Paul E. Peterson, 2018-04-27 *Commodity Derivatives A Guide for Future Practitioners* describes the origins and uses of these important markets Commodities are often used as inputs in the production of other products and commodity prices are notoriously volatile Derivatives include forwards futures options and swaps all are types of contracts that allow buyers and sellers to establish the price at one time and exchange the commodity at another These contracts can be used to establish a price now for a purchase or sale that will occur later or establish a price later for a purchase or sale now This book provides detailed examples for using derivatives to manage prices by hedging using futures options and swaps It also presents strategies for using derivatives to speculate on price levels relationships volatility and the passage of time Finally because the relationship between a commodity price and a derivative price is not constant this book examines the impact of basis behaviour on hedging results and shows how the basis can be bought and sold like a commodity The material in this book is based on the author's 30 year career in commodity derivatives and is essential reading for students planning careers as commodity merchandisers traders and related industry positions Not only does it provide them with the necessary theoretical background it also covers the practical applications that employers expect new hires to understand Examples are coordinated across chapters using consistent prices and formats and industry terminology is used so students can become familiar with standard terms and concepts This book is organized into 18 chapters corresponding to approximately one

chapter per week for courses on the semester system

The Economics and Finance of Commodity Price Shocks

Mikidadu Mohammed, 2021-11-25 The behaviour of commodity prices never ceases to marvel economists financial analysts industry experts and policymakers Unexpected swings in commodity prices used to occur infrequently but have now become a permanent feature of global commodity markets This book is about modelling commodity price shocks It is intended to provide insights into the theoretical conceptual and empirical modelling of the underlying causes of global commodity price shocks Three main objectives motivated the writing of this book First to provide a variety of modelling frameworks for documenting the frequency and intensity of commodity price shocks Second to evaluate existing approaches used for forecasting large movements in future commodity prices Third to cover a wide range and aspects of global commodities including currencies rare hard lustrous transition metals agricultural commodities energy and health pandemics Some attempts have already been made towards modelling commodity price shocks However most tend to narrowly focus on a subset of commodity markets i e agricultural commodities market and or the energy market In this book the author moves the needle forward by operationalizing different models which allow researchers to identify the underlying causes and effects of commodity price shocks Readers also learn about different commodity price forecasting models The author presents the topics to readers assuming less prior or specialist knowledge Thus the book is accessible to industry analysts researchers undergraduate and graduate students in economics and financial economics academic and professional economists investors and financial professionals working in different sectors of the commodity markets Another advantage of the book s approach is that readers are not only exposed to several innovative modelling techniques to add to their modelling toolbox but are also exposed to diverse empirical applications of the techniques presented

How to Make Money with Commodities Andrew Hecht, 2013-02-22 Generate steady returns in one of the world s hottest markets How to Make Money with Commodities offers proven strategies and tactics to help individual investors capitalize from the commodities market as global demographic shifts drive prices up How to Make Money with Commodities sets out in crystal clear language how the commodity markets affect you every day and in every way and why your understanding of the market is essential to your portfolio An incredibly valuable resource for investors of all levels Ed Weis Dean School of Business at Mercy College former Managing Director Merrill Lynch This book gives fascinating insight into the high octane world of commodities trading It unravels the mysteries of the market layer by layer Ian McConnell Business Editor The Herald UK and award winning journalist Andrew Hecht has taken the world of commodities and presented a compelling picture of the various markets from past to present to future The comprehensive nature of the book makes it a must read for anyone who is or hopes to be a trader or analyst Andy s writing is engaging and he has written a book for everyone as we are all commodities consumers and intimately affected by these markets Josef Schroeter President CQG Inc Given demographic trends around the globe and the increasing demand for staple goods the commodities market has transformed into one of the hottest new mainstream

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Commodities M. A. H. Dempster,Ke Tang,2022-12-16 Since a major source of income for many countries comes from exporting commodities price discovery and information transmission between commodity futures markets are key issues for continued economic development Commodities Fundamental Theory of Futures Forwards and Derivatives Pricing Second Edition covers the fundamental theory of and derivatives pricing for major commodity markets as well as the interaction between commodity prices the real economy and other financial markets After a thoroughly updated and extensive theoretical and practical introduction this new edition of the book is divided into five parts the fifth of which is entirely new material covering cutting edge developments Oil Products considers the structural changes in the demand and supply for hedging services that are increasingly determining the price of oil Other Commodities examines markets related to agricultural commodities including natural gas wine soybeans corn gold silver copper and other metals Commodity Prices and Financial Markets investigates the contemporary aspects of the financialization of commodities including stocks bonds futures currency markets index products and exchange traded funds Electricity Markets supplies an overview of the current and future modelling of electricity markets Contemporary Topics discuss rough volatility order book trading cryptocurrencies text mining for price dynamics and flash crashes

Primary Commodity Prices L. Alan Winters,David Sapsford,Centre for Economic Policy Research (Great Britain),1990 This book reports the proceedings of a major international conference on Primary Commodity Prices Economic Models and Policy held in London under the auspices of the Centre for Economic Policy

Research in March 1989 *Methods to Analyse Agricultural Commodity Price Volatility* Isabelle Piot-Lepetit, Robert M'Barek, 2011-06-10 This book examines the issue of price volatility in agricultural commodities markets and how this phenomenon has evolved in recent years The factors underlying the price spike of 2007-08 appear to be global and macroeconomic in nature including the rapid growth in demand by developing countries the international financial crisis and exchange rate movements Some of these factors are new appearing as influences on price volatility only in the last decade Although volatility has always been a feature of agricultural commodity markets the evidence suggests that volatility has increased in certain commodity markets A growing problem is that agricultural price shocks and volatility disrupt agricultural markets economic incentives and incomes With increased globalization and integration of financial and energy markets with agricultural commodity markets the relationships between markets are expanding and becoming more complex When a crisis such as a regional drought food safety scare or a financial crisis hits a particular market policy makers often do not know the extent to which it will impact on other markets and affect producer consumer and trader decisions Including contributions from experts at the World Bank the Food and Agriculture Organization of the United Nations the USDA and the European Commission the research developed throughout the chapters of this book is based on current methodologies that can be used to analyze price volatility and provide directions for understanding this volatility and the development of new agricultural policies The book highlights the challenges facing policy makers in dealing with the changing nature of agricultural commodities markets and offers recommendations for anticipating price movements and managing their consequences It will be a practical guide for both present and future policy makers in deciding on potential price stabilizing interventions and will also serve as a useful resource for researchers and students in agricultural economics **The Comovement in Commodity Prices** Mr. Ron Alquist, Mr. Olivier Coibion, 2013-06-05 We present a simple macroeconomic model with a continuum of primary commodities used in the production of the final good such that the real prices of commodities have a factor structure One factor captures the combined contribution of all aggregate shocks which have no direct effects on commodity markets other than through general equilibrium effects on output while other factors represent direct commodity shocks Thus the factor structure provides a decomposition of underlying structural shocks The theory also provides guidance on how empirical factors can be rotated to identify the structural factors We apply factor analysis and the identification conditions implied by the model to a cross section of real non energy commodity prices The theoretical restrictions implied by the model are consistent with the data and thus yield a structural interpretation of the common factors in commodity prices The analysis suggests that commodity related shocks have generally played a limited role in global business cycle fluctuations Handbook of Recent Advances in Commodity and Financial Modeling Giorgio Consigli, Silvana Stefani, Giovanni Zambruno, 2017-09-30 This handbook includes contributions related to optimization pricing and valuation problems risk modeling and decision making problems arising in global financial and commodity markets from

the perspective of Operations Research and Management Science The book is structured in three parts emphasizing common methodological approaches arising in the areas of interest Part I Optimization techniques Part II Pricing and Valuation Part III Risk Modeling The book presents to a wide community of Academics and Practitioners a selection of theoretical and applied contributions on topics that have recently attracted increasing interest in commodity and financial markets Within a structure based on the three parts it presents recent state of the art and original works related to The adoption of multi criteria and dynamic optimization approaches in financial and insurance markets in presence of market stress and growing systemic risk Decision paradigms based on behavioral finance or factor based or more classical stochastic optimization techniques applied to portfolio selection problems including new asset classes such as alternative investments Risk measurement methodologies including model risk assessment recently applied to energy spot and future markets and new risk measures recently proposed to evaluate risk reward trade offs in global financial and commodity markets and derivatives portfolio hedging and pricing methods recently put forward in the financial community in the aftermath of the global financial crisis

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