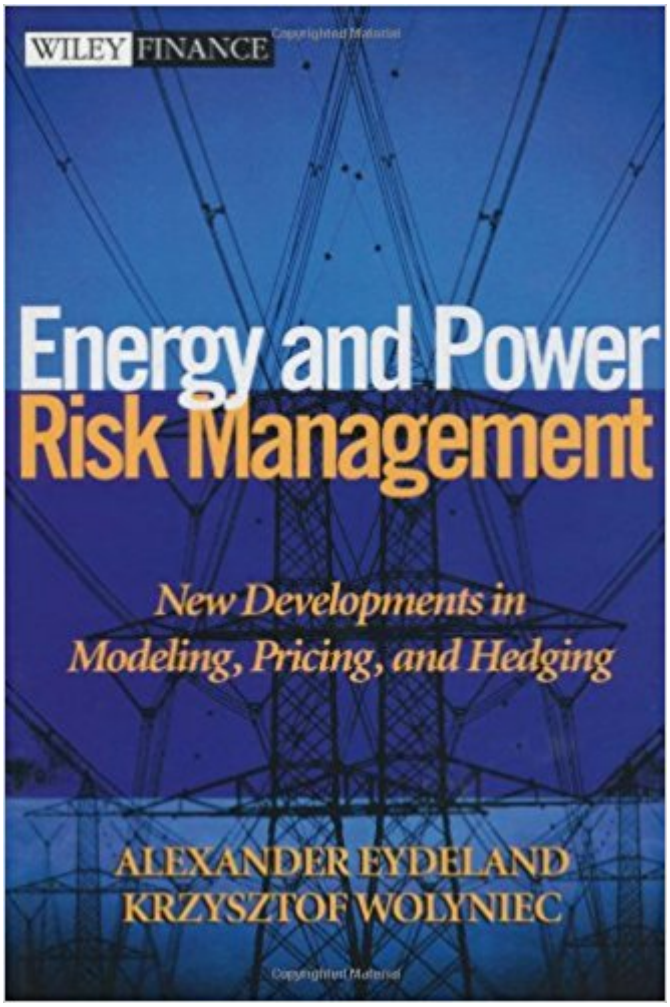
Energy And Power Risk Management: New Developments In Modeling, Pricing, And Hedging



Synopsis

Praise for Energy and Power Risk Management "Energy and Power Risk Management identifies and addresses the key issues in the development of the turbulent energy industry and the challenges it poses to market players. An insightful and far-reaching book written by two renowned professionals." -Helyette Geman, Professor of Finance University Paris Dauphine and ESSEC "The most up-to-date and comprehensive book on managing energy price risk in the natural gas and power markets. An absolute imperative for energy traders and energy risk management professionals." -Vincent Kaminski, Managing Director Citadel Investment Group LLC "Eydeland and Wolyniec's work does an excellent job of outlining the methods needed to measure and manage risk in the volatile energy market." -Gerald G. Fleming, Vice President, Head of East Power Trading, TXU Energy Trading "This book combines academic rigor with real-world practicality. It is a must-read for anyone in energy risk management or asset valuation." -Ron Erd, Senior Vice President American Electric Power

Book Information

Hardcover: 504 pages

Publisher: Wiley; 1 edition (December 30, 2002)

Language: English

ISBN-10: 0471104000

ISBN-13: 978-0471104001

Product Dimensions: 6.5 x 1.4 x 9.2 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 4.1 out of 5 starsÂ Â See all reviewsÂ (7 customer reviews)

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Customer Reviews

The management of risk in the context of energy or weather is quite different than in other contexts, due to the peculiarities of the data that occurs in energy prices. The high volatility of energy prices can range, as the authors of this book point out, between 50-100% for gas, to 100-500% for electricity. No doubt this kind of volatility, and other properties such as correlations and mean reversion, entails that some different mathematical strategies for modeling energy derivatives be devised. The authors give a good tour of some of these strategies, and anyone interested in energy

derivatives will gain a lot of insight into their modeling when reading this book. Due to space constraints, only chapters 5 and 7, which this reviewer considered the most important of the book, will be reviewed here.In chapter 5 the author presents techniques for energy modeling that go beyond the used of the convenience yield by using forward pricing techniques. The goal is to describe the dynamics of future contract prices that takes into account the correlations with other futures, and not on the price evolution of a single contract. Thus it is the `forward curve' that is relevant for obtaining a useable model for derivative cash flow. The HJM model is presented as one of these, with changes in the forward curve over a particular time interval represented as a linear combination of random perturbations. For energy markets, each perturbation is specified by a deterministic shape function multiplied by a Gaussian factor. The unobservability of the factors determining the forward curve evolution makes the use of historical data mandatory if the parameters are to be estimated. But lack of sufficient historical data and its nonstationarity complicate this estimation.

Understanding, Evaluating and Implementing Effective Risk Management Enterprise Risk Management (Financial Engineering and Risk Management) Security Risk Management: Building an Information Security Risk Management Program from the Ground Up Making Enterprise Risk Management Pay Off: How Leading Companies Implement Risk Management Credit Risk Management In and Out of the Financial Crisis: New Approaches to Value at Risk and Other Paradigms (Wiley Finance)