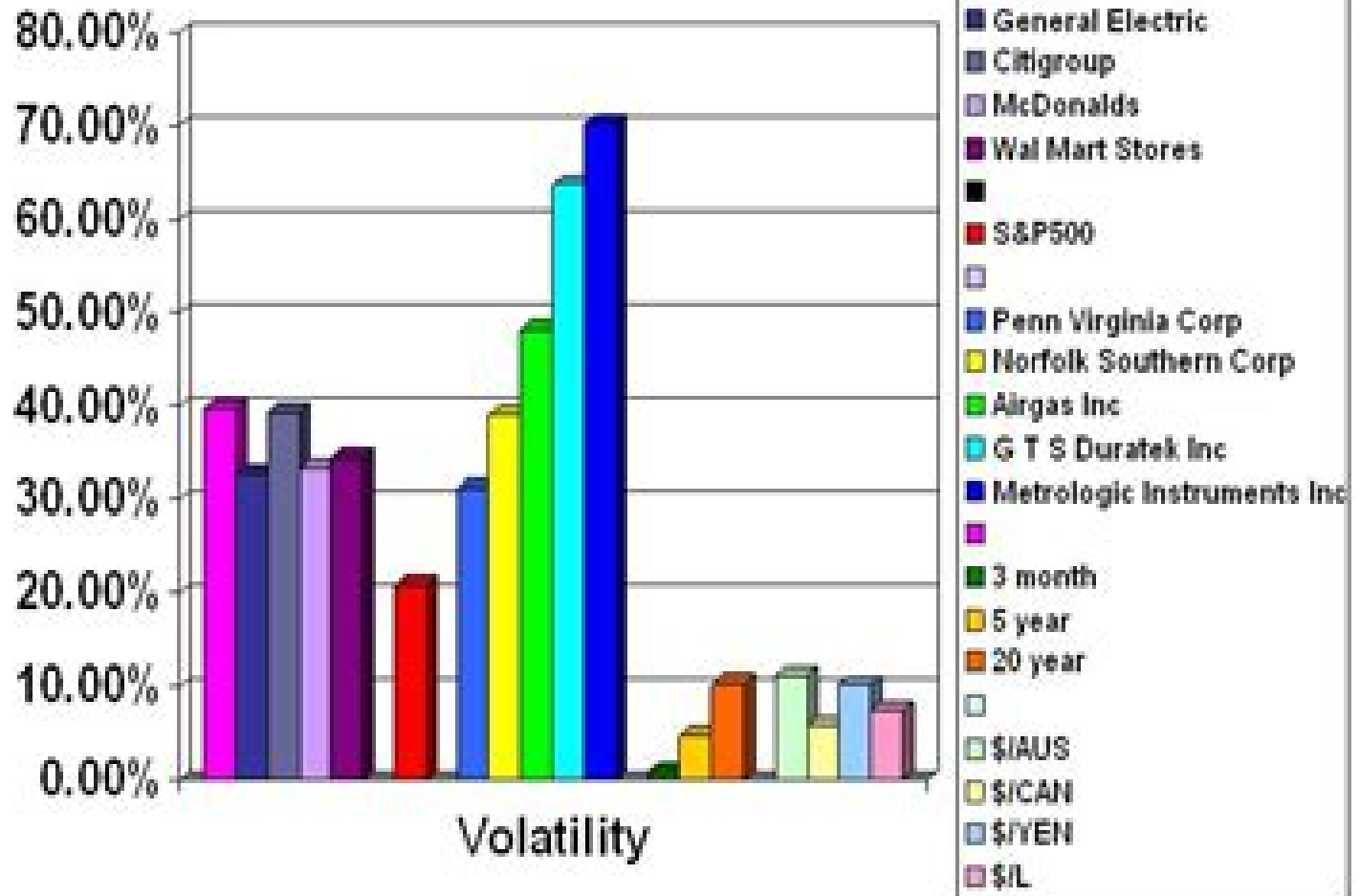


# VOLATILITY BY ASSET CLASS



# Volatility As An Asset Class

**Martin Wallmeier**



## **Volatility As An Asset Class:**

**Volatility as an Asset Class** Ryszard Kokoszczyński, Juliusz Jablecki, Paweł Sakowski, Robert Slepaczuk, Piotr Wójcik, 2015 Volatility derivatives are today an important group of financial instruments This book presents an overview of their major classes and their possible applications in investment strategies and portfolio optimization Volatility is not constant so the book presents its term structure and its potential use in forecasting volatility **Volatility as an Asset Class** Israel Nelken, 2007 With the recent steep rise and many changes in the field of volatility in the capital markets exchanges across the world are planning to increase volatility trading Volatility as an Asset Class brings together the best techniques from both academics and practitioners at an important time *Volatility as an Asset Class* Samuel Reber, 2007 This thesis examines the characteristics of volatility as an asset class through an analysis of the return characteristics of eight simple volatility trading strategies that involve trading in futures and options on the CBOE volatility index VIX and in S P 500 Index straddles Particular attention is paid to the profitability and the potential diversification and hedging benefits arising from adding volatility to an S P 500 portfolio While the characteristics of the VIX imply substantial diversification benefits from combining volatility with an S P 500 portfolio the overall results for seven out of the eight trading strategies are very disappointing Except for one VIX futures trading strategy each trading rule generated large losses This finding corresponds to the broad empirical evidence for a negative volatility risk premium More over the results indicate that in a persistently low volatility environment holding near term VIX futures is very expensive Trading in long term futures contracts is much cheaper and therefore this strategy could provide an interesting instrument to diversify an S P 500 portfolio Overall the findings imply that VIX derivatives cannot replicate the characteristics of the underlying volatility index The returns of the straddle trading strategies show that the negative time decay effect is particularly important Hence straddles should not be created with short lived options Furthermore the results indicate that each volatility trading strategy provides insurance against equity market crashes Yet the highly negative volatility risk premium prevents costs effective hedging of S P 500 portfolios by adding volatility **Volatility as an Asset Class** Bastian Teichgräber, Marco Menichetti, Marcel Vaschauner, 2009 *Volatility as an Asset Class* Martin Wallmeier, 2006 Volatility movements are known to be negatively correlated with stock index returns Hence investing in volatility appears to be attractive for investors seeking risk diversification The most common instruments for investing in pure volatility are variance swaps which now enjoy an active over the counter market This paper investigates the risk return tradeoff of variance swaps on the Deutscher Aktienindex DAX and EuroStoxx50 index ESX over the time period of 1995 to 2004 We synthetically derive variance swap rates from the smile in option prices Using quotes from two large investment banks over two months we validate that the synthetic values are close to OTC market prices Our objective is to analyze the relationship between index and variance swap returns including extreme events like September 11 2001 We find that the variance swap return pattern shows a pronounced kink at zero

index return This not only highlights the importance of differentiating between up and down markets but also sheds new light on the leverage effect Due to the option like profile of returns it is crucial to account for the non normality of returns in measuring the performance of variance swap investments Based on the empirical analysis we finally draw conclusions for investors Our backtests result in significant short volatility positions in optimal portfolios during the sample period Typically the stock index weight is also negative since the diversification gain exceeds the loss in expected return

*Volatility as an Asset Class* Clifford W. Stanton, 2015 The Chicago Board Options Exchange CBOE Market Volatility Index or VIX was conceived in 1993 by Professor Robert E Whaley of Duke University to provide a benchmark of expected short term volatility According to the CBOE VIX measures 30 day expected volatility of the S P 500 Index The components of VIX are near and next term put and call options usually in the first and second S P 500 Index SPX contract months As will be demonstrated in this paper the value of volatility itself lies in the fact that it is negatively correlated to the returns of the equity market and becomes increasingly so as market declines accelerate As a result long exposure to volatility could provide increasing levels of portfolio protection exactly when investors are most in need of such protection Another way to think about this is that because most investors are net long equities they are implicitly short volatility and therefore hedging that exposure may be prudent

**Balanced Asset Allocation** Alex Shahidi, 2014-12-09 The conventional portfolio is prone to frequent and potentially devastating losses because it is NOT balanced to different economic outcomes In contrast a truly balanced portfolio can help investors reduce risk and more reliably achieve their objectives This simple fact would surprise most investors from beginners to professionals Investment consultant Alex Shahidi puts his 15 years of experience advising the most sophisticated investors in the world and managing multi billion dollar portfolios to work in this important resource for investors You will better understand why nearly every portfolio is poorly balanced and how to view the crucial asset allocation decision from a deeper more thoughtful perspective The concepts presented are simple intuitive and easy to implement for every investor Author Alex Shahidi will walk you through the logic behind the balanced portfolio framework and provide step by step instructions on how to build a truly balanced portfolio No book has ever been written that discusses asset allocation in this light Provides insights from a top ranked investment consultant using strategies from the industry s brightest minds Proposes a balanced asset allocation that can achieve stable returns through various economic climates Introduces sophisticated concepts in very simple terms For those who want to better manage their investment portfolio and seek a more advanced approach to building a balanced portfolio *Balanced Asset Allocation How to Profit in Any Economic Climate* provides an in depth treatment of the topic that can be put to use immediately

**Interest Rate Models, Asset Allocation and Quantitative Techniques for Central Banks and Sovereign Wealth Funds** A. Berkelaar, Joachim Coche, Ken Nyholm, 2010-01-15 This edited volume contains essential readings for financial analysts and market practitioners working at Central Banks and Sovereign Wealth Funds It presents the reader with state of the art methods that are directly

implementable and industry best practices as followed by leading institutions in their field      *Volatility as an Alternative Asset Class* Elvira Caloiero, 2018 We investigate the potential role of Exchange Traded Products Notes as vehicles to trade volatility here proxied by the VIX index as an asset class in a fully optimizing asset allocation framework subject to long only constraints In back testing recursive exercises based on an expanding window of data from February 2010 to February 2016 we find evidence that VIX should enter with non negligible weight most portfolio strategies and that under many circumstances long VIX positions may generate positive risk adjusted performance benefits However the volatility positions that can be managed and traded through one of the most popular US exchange traded notes VXX fails to deliver such realized out of sample benefits under all utility functions and for a range of assumptions on investors risk aversion Even though the turnover implied by VXX does not appear excessive taking into account transaction costs worsens considerably its performance and even casts doubts as to whether volatility ought to be considered as an alternative asset class altogether Direct strategies that trade appropriate futures on the VIX improve somewhat realized performance but not enough to tilt over the balance of our conclusions      **Understanding Asset Allocation** Scott Frush, 2006-10-16 Build and manage a winning portfolio in bull and bear markets Understanding Asset Allocation logically explains exactly what you need to know about how to allocate your assets This comprehensive highly accessible guide clearly explains the key principles of asset allocation from selection to rebalancing to risk vs return You ll discover how the different asset classes behave the leading misconceptions about allocation and how risk profile time horizon and needs can impact your investments No matter your type of portfolio or your level of experience this easy to follow non technical rulebook shows you how to Apply allocation with separate asset classes or through mutual funds Protect your investments from large swings in market value Achieve both your pre retirement and retirement financial goals Avoid common allocation mistakes and behavioral blunders Complete with instructive hands on examples of real world portfolios that have exhibited a high level of return Understanding Asset Allocation arms you with all the tools you need to build and manage a portfolio that experiences higher investment performance and less risk over time      [The Journal of Computational Finance](#) , 2006      *Investment Report* , 2000

**Delivering Alpha: Lessons from 30 Years of Outperforming Investment Benchmarks** Hilda Ochoa-Brillembourg, 2018-12-21 From a former World Bank Executive and renowned investor a detailed roadmap to adding consistent sustainable value to globally diversified portfolios For many investors alpha is akin to the Holy Grail Risk adjusted returns above benchmarks alpha are particularly challenging to achieve even with a sound strategy Hilda Ochoa Brillembourg is an expert on alpha Over the past four decades she and her team consistently exceeded benchmarks and delivered appreciable value added on their investments In Delivering Alpha she reveals the principles and methods employed in her investment strategies along with insights drawn from her personal life She shows how timing market awareness price and relative value to the investor are critical drivers of effective investment decisions Ochoa Brillembourg also debunks

common investment myths that often trip up both new and experienced investors Delivering Alpha provides practical advice on Creating successful decision making governance to reduce errors and correctly assign responsibilities and incentives Dealing thoughtfully and effectively with governance challenges Building the right policy portfolio specifying desired allocations to each asset class Structuring asset classes and adding value oriented or other opportunistic tilts Measuring and managing risks avoiding common mistakes and more Light on theory and serious on practice this book is the culmination of a lifetime s experience from one of the most successful women in finance It s essential reading for investors looking to add sustainable value to globally diversified portfolios *The New Science of Asset Allocation* Warren E. Bitters,1997

Comprehensive survey on contemporary thinking Essential reading for investment managers Asset allocation has only become a significant component in the investment management process comparatively recently Increasingly sophisticated methods are being developed and used in the area This text provides a survey of contemporary thinking in asset allocation and dissects the many niche subjects within the study of asset allocation to gain new insights **Swaps & Financial**

**Derivatives Library** Satyajit Das,2006 The Das Swaps Financial Derivatives Library Third Edition Revised is the successor to Swaps Financial Derivatives which was first published in 1989 as Swap Financing Quantifying the Market Risk

Premium Phenomenon for Investment Decision Making William F. Sharpe,Katrina F. Sherrerd,1990 **U.S. Public Pension**

**Handbook: A Comprehensive Guide for Trustees and Investment Staff** Von M. Hughes,2019-07-26 The first comprehensive guide to mastering the roles and responsibilities of a public pension fiduciary in the U S In an ever changing financial and political landscape your job as a public pension fiduciary continues to get more difficult Now you have the help you need U S Public Pension Handbook is the only one stop resource that covers the various areas of public pension governance investment management infrastructure accounting and law This comprehensive guide presents critical data information and insights in topic specific easy to understand ways providing the knowledge you need to elevate your expertise and overall contribution to your pension plan or system U S Public Pension Handbook covers Today s domestic and global public pension marketplace The ins and outs of the defined benefit model the defined contribution and hybrid pension designs Financial concepts central to the actuarial valuation of pension benefits Public pension investment policies and philosophies Asset allocations and how they have changed over time State and local government pension contribution policies The impact of governance structure and board composition on organizational results Fiduciary responsibility and the general legal regulatory framework governing trustees How changes in trust law may affect public pension trustee fiduciary responsibility and liability Best practices in pension governance and organizational design Public pension trustees are the unsung heroes of the world of finance collectively managing over 6 trillion in retirement assets in this country alone U S Public Pension Handbook provides the grounding you need to make sure you perform your all important with the utmost expertise and professionalism **Futures & Otc World** ,2010 *Swaps/financial Derivatives* Satyajit Das,2004 The

emphasis is on actual transactions that are stripped down to analyse and illustrate the dynamics of individual structures and to understand the types of products available The text is structured either to be read through from start to finish or to be used as a reference source Australian author      *The ... Guide to Foreign Exchange* ,2005

## Decoding **Volatility As An Asset Class**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Volatility As An Asset Class**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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