

THE VALUE IN VOLATILITY

ALPAY KAYA, CFA



A PRACTITIONER'S GUIDE TO
LEVERAGED ETFs

The Value In Volatility A Practitioners Guide To Leveraged Etf's

Tim Leung,Marco Santoli



The Value In Volatility A Practitioners Guide To Leveraged Etf's:

Leveraged Exchange-Traded Funds Peter Miu, Narat Charupat, 2016-04-29 Leveraged Exchange Traded Funds LETFs are publicly traded funds that promise to provide daily returns that are in a multiple positive or negative of the returns on an index To meet that promise the funds use leverage which is typically obtained through derivatives such as futures contracts forward contracts and total return swaps As of the end of 2012 there were over 250 LETFs in North America with total assets of approximately 32.24 billion While the amount of assets held by these funds is still small their popularity continues to grow as their trading volume is significantly larger and much more dynamic than traditional non leveraged ETFs This comprehensive guide to LETFs provides high level practitioners and researchers with a detailed reference tool for navigating the market and making informed investment decisions Written from a measured analytical perspective Miu and Charupat use clear and concise explanations of all important aspects of LETFs focusing on such key elements as structure pricing performance regulations taxation and trading strategies The first two chapters set the stage for the book by identifying exactly what LETFs are and how they are regulated The following chapters then look to bridge theory with practice to dive deep into the mechanics portfolio rebalancing techniques and daily compounding effects that make investing in these funds so lucrative

Encyclopedia of Business Information Sources Linda D. Hall, 2008 Each updated edition of this detailed resource identifies nearly 35 000 live print and electronic sources of information listed under more than 1 100 alphabetically arranged subjects industries and business concepts and practices Edited by business information expert James Woy

Leveraged Exchange-Traded Funds Narat Charupat, 2016 *Leveraged ETFS and Intraday Volatility* Adam Welker, 2012 This study provides an empirical analysis to determine whether leveraged exchange traded funds are contributing to excess intraday volatility The study which is centered around the introduction dates of six leveraged ETFs uses high frequency TAQ data for the S P 500 constituent stocks to compare volatility before and after the introduction dates Realized volatility is calculated for the morning afternoon and entire trading day during the twenty trading days before and twenty trading days after each date of interest There has been a lot of debate recently about whether leveraged ETFs could be increasing swings in intraday volatility Up until now this debate has persisted almost exclusively among practitioners and professionals This study is the first in depth academic approach to the problem Making use of the rich TAQ database to measure intraday volatility around the event days some suspicions are confirmed while others are not

Leveraged Exchange-Traded Funds Tim Leung, Marco Santoli, 2016-02-24 This book provides an analysis under both discrete time and continuous time frameworks on the price dynamics of leveraged exchange traded funds LETFs with emphasis on the roles of leverage ratio realized volatility investment horizon and tracking errors This study provides new insights on the risks associated with LETFs It also leads to the discussion of new risk management concepts such as admissible leverage ratios and admissible risk horizon as well as the mathematical and empirical analyses of several trading strategies including static

portfolios pairs trading and stop loss strategies involving ETFs and LETFs The final part of the book addresses the pricing of options written on LETFs Since different LETFs are designed to track the same reference index these funds and their associated options share very similar sources of randomness The authors provide a no arbitrage pricing approach that consistently value options on LETFs with different leverage ratios with stochastic volatility and jumps in the reference index Their results are useful for market making of these options and for identifying price discrepancies across the LETF options markets As the market of leveraged exchange traded products become a sizeable connected part of the financial market it is crucial to better understand its feedback effect and broader market impact This is important not only for individual and institutional investors but also for regulators

Leveraged ETF Implied Volatilities from ETF Dynamics Tim

Leung,2015 The growth of the exchange traded fund ETF industry has given rise to the trading of options written on ETFs and their leveraged counterparts LETFs We study the relationship between the ETF and LETF implied volatility surfaces when the underlying ETF is modeled by a general class of local stochastic volatility models A closed form approximation for prices is derived for European style options whose payoff depends on the terminal value of the ETF and or LETF Rigorous error bounds for this pricing approximation are established A closed form approximation for implied volatilities is also derived We also discuss a scaling procedure for comparing implied volatilities across leverage ratios The implied volatility expansions and scalings are tested in three well known settings CEV Heston and SABR

Implied Volatility of Leveraged ETF Options

Tim Leung,2015 This paper studies the problem of understanding implied volatilities from options written on leveraged exchanged traded funds LETFs with an emphasis on the relations between LETF options with different leverage ratios We first examine from empirical data the implied volatility skews for LETF options based on the S P 500 In order to enhance their comparison with non leveraged ETFs we introduce the concept of moneyness scaling and provide a new formula that links option implied volatilities between leveraged and unleveraged ETFs Under a multiscale stochastic volatility framework we apply asymptotic techniques to derive an approximation for both the LETF option price and implied volatility The approximation formula reflects the role of the leverage ratio and thus allows us to link implied volatilities of options on an ETF and its leveraged counterparts We apply our result to quantify matches and mismatches in the level and slope of the implied volatility skews for various LETF options using data from the underlying ETF option prices This reveals some apparent biases in the leverage implied by the market prices of different products long and short with leverage ratios two times and three times

The Volatility Surface Jim Gatheral,2006

Setting Aside Myths About Leveraged ETFs Tom

Lydon,2010 This Element is an excerpt from The ETF Trend Following Playbook Profiting from Trends in Bull or Bear Markets with Exchange Traded Funds ISBN 9780137029013 by Tom Lydon Available in print and digital formats The real truth about leveraged ETFs and why commonly held beliefs about them just aren't true With popularity comes criticism and nit picking Leveraged ETFs are no exception Some pundits believe these specialized ETFs have increased market volatility in

the last hour of trading But many investors and people in the media are having trouble getting their arms around the truth The SEC has been looking closely at these funds and have had dialogue and visits with ETF providers who are offering them Here are the facts *Leveraged ETFs* Tim Leung,2015 This paper provides a quantitative risk analysis of leveraged ETFs LETFs with a focus on the impact of leverage and investment horizon From the empirical returns of several major LETFs based on the S P 500 index the performance of LETFs generally declines as investment horizon increases compared to the reference index The value erosion is more severe for highly leveraged ETFs To better understand the risk impact of leverage we introduce the admissible leverage ratio induced by a risk measure for example value at risk VaR and conditional VaR This idea can help investors exclude LETFs that are deemed too risky Moreover we also discuss the concept of admissible risk horizon so that the investor can control risk exposure by selecting an appropriate holding period In addition we also compute the intra horizon risk which leads us to evaluate a stop loss take profit strategy for LETFs Lastly we investigate the impact of volatility exposure on the return of different LETF portfolios

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