

# Mean-Variance Portfolio Optimization using Markowitz's Theory

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Desired Portfolio Return 0.15 ← Constraint in Solver

Stock Returns

	ATT	GMC	USX	TBILL
ATT	0.111	0.223	0.122	0.05
GMC	0.114	0.46	3.00E-03	0.05
USX	0.323	-0.09	0.111	0.05
TBILL	1.00E-03	-0.107	0.054	0.05
ATT	-0.209	0.12	0.169	0.05
GMC	0.223	0.309	-0.035	0.05
USX	0.26	0.411	0.133	0.05
TBILL	0.21	0.05	0.732	0.05
ATT	0.144	0.1	0.021	0.05
GMC	0.412	0.445	0.131	0.05
USX	-0.013	0.123	6.00E-03	0.05
TBILL	0.553	0.55	0.908	0.05

Portfolio Allocation

ATT	0.136
GMC	0.392
USX	0.120
TBILL	0.352
Total	1

Values to be changed by Solver

Constraint in Solver

Covariance Matrix

	ATT	GMC	USX	TBILL
ATT	0.041227	0.023	0.030563	3.5E-35
GMC	0.023661	0.048	0.015001	-2.5E-34
USX	0.030563	0.015	0.090306	-1.4E-34
TBILL	3.5E-35	-2E-34	-1.4E-34	5.3E-35

Portfolio Variance

Variances 0.003471 0.009 0.00249 -3.2E-35 0.01425 ←

Value to be minimized

Mean Returns 0.17742 0.216167 0.19625 0.05

## INSTRUCTIONS

Set your desired portfolio return

Start the Excel Solver and

- i) Minimize the Portfolio Variance
- ii) Change "By changing variable cells" to the range of cells containing the Portfolio Allocation
- iii) Set the constraints (the total portfolio allocation must add up to one, and the portfolio return should be the desired value)
- iv) Click Solve. You should now find that you Portfolio Allocation has changed.

NOTE: You may need to enable Solver through the File > Options > Add-Ins > Manage menu

# Mean Variance Portfolio Optimization With Excel

**M Woodhall**



## **Mean Variance Portfolio Optimization With Excel:**

**Simulation and Optimization in Finance** Dessimslava A. Pachamanova, Frank J. Fabozzi, 2010-09-23 An introduction to the theory and practice of financial simulation and optimization In recent years there has been a notable increase in the use of simulation and optimization methods in the financial industry Applications include portfolio allocation risk management pricing and capital budgeting under uncertainty This accessible guide provides an introduction to the simulation and optimization techniques most widely used in finance while at the same time offering background on the financial concepts in these applications In addition it clarifies difficult concepts in traditional models of uncertainty in finance and teaches you how to build models with software It does this by reviewing current simulation and optimization methodology along with available software and proceeds with portfolio risk management modeling of random processes pricing of financial derivatives and real options applications Contains a unique combination of finance theory and rigorous mathematical modeling emphasizing a hands on approach through implementation with software Highlights not only classical applications but also more recent developments such as pricing of mortgage backed securities Includes models and code in both spreadsheet based software RISK Solver Evolver VBA and mathematical modeling software MATLAB Filled with in depth insights and practical advice Simulation and Optimization Modeling in Finance offers essential guidance on some of the most important topics in financial management [Electrical Engineering and Intelligent Systems](#) Sio-Iong Ao, Len

Gelman, 2012-08-01 The revised and extended papers collected in this volume represent the cutting edge of research at the nexus of electrical engineering and intelligent systems They were selected from well over 1000 papers submitted to the high profile international World Congress on Engineering held in London in July 2011 The chapters cover material across the full spectrum of work in the field including computational intelligence control engineering network management and wireless networks Readers will also find substantive papers on signal processing Internet computing high performance computing and industrial applications The Electrical Engineering and Intelligent Systems conference as part of the 2011 World Congress on Engineering was organized under the auspices of the non profit International Association of Engineers IAENG With more than 30 nations represented on the conference committees alone the Congress features the best and brightest scientific minds from a multitude of disciplines related to engineering These peer reviewed papers demonstrate the huge strides currently being taken in this rapidly developing field and reflect the excitement of those at the frontiers of this research

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**Operational Research in Business and Economics** Evangelos Grigoroudis,Michael Doumpos,2016-07-29

This book gathers a selection of refereed papers presented at the 4th International Symposium and 26th National Conference of the Hellenic Operational Research Society It highlights recent scientific advances in operational research and management science OR MS with a focus on linking OR MS with other areas of quantitative methods in a multidisciplinary framework Topics covered include areas such as business process modeling supply chain management organization performance and strategy planning revenue management financial applications production planning metaheuristics logistics inventory systems and energy systems

**Managing Investment Portfolios** John L. Maginn,Donald L. Tuttle,Dennis W.

McLeavey,Jerald E. Pinto,2007-03-09 A rare blend of a well organized comprehensive guide to portfolio management and a deep cutting edge treatment of the key topics by distinguished authors who have all practiced what they preach The subtitle A Dynamic Process points to the fresh modern ideas that sparkle throughout this new edition Just reading Peter Bernstein s thoughtful Foreword can move you forward in your thinking about this critical subject Martin L Leibowitz Morgan Stanley Managing Investment Portfolios remains the definitive volume in explaining investment management as a process providing organization and structure to a complex multipart set of concepts and procedures Anyone involved in the management of portfolios will benefit from a careful reading of this new edition Charles P Jones CFA Edwin Gill Professor of Finance College of Management North Carolina State University

*Professional Financial Computing Using Excel and VBA* Humphrey

Kwong Kwai Tung,Humphrey K. K. Tung,Donny C. F. Lai,Michael C. S. Wong,2010-06-15 Professional Financial Computing Using Excel and VBA is an admirable exposition that bridges the theoretical underpinnings of financial engineering and its

application which usually appears as a black box software application The book opens the black box and reveals the architecture of risk modeling and financial engineering based on industry standard stochastic models by utilizing Excel and VBA functionality to create a robust and practical modeling tool kit Financial engineering professionals who purchase this book will have a jumpstart advantage for their customized financial engineering and modeling needs Dr Cameron Wicentowich Vice President Treasury Analytics Canadian Imperial Bank of Commerce CIBC Spreadsheet modeling for finance has become a standard course in the curriculum of many Quantitative Finance programs since the Excel based Visual Basic programming is now widely used in constructing optimal portfolios pricing structured products and managing risks Professional Financial Computing Using Excel and VBA is written by a unique team of finance physics and computer academics and practitioners It is a good reference for those who are studying for a Masters degree in Financial Engineering and Risk Management It can also be useful for financial engineers to jump start a project on designing structured products modeling interest term structure or credit risks Dr Jin Zhang Director of Master of Finance Program and Associate Professor The University of Hong Kong Excel has been one of the most powerful tools for financial planning and computing over the last few years Most users utilize a fraction of its capabilities One of the reasons is the limited availability of books that cover the advanced features of Excel for Finance Professional Financial Computing Using Excel and VBA goes the extra mile and deals with the Excel tools many professionals call for This book is a must for professionals or students dealing with financial engineering financial risk management computational finance or mathematical finance I loved the way the authors covered the material using real life hands on examples Dr Isaac Gottlieb Temple University Author Next Generation Excel Modeling in Excel for Analysts and MBAs *Harry Markowitz* Harry Markowitz,2009-03-03 Harry M Markowitz received the Nobel Prize in Economics in 1990 for his pioneering work in portfolio theory He also received the von Neumann Prize from the Institute of Management Science and the Operations Research Institute of America in 1989 for his work in portfolio theory sparse matrices and the SIMSCRIPT computer language While Dr Markowitz is well known for his work on portfolio theory his work on sparse matrices remains an essential part of linear optimization calculations In addition he designed and developed SIMSCRIPT OCo a computer programming language SIMSCRIPT has been widely used for simulations of systems such as air transportation and communication networks Handbook of Finance, Financial Markets and Instruments Frank J. Fabozzi,2008-11-03 Volume I Financial Markets and Instruments skillfully covers the general characteristics of different asset classes derivative instruments the markets in which financial instruments trade and the players in those markets It also addresses the role of financial markets in an economy the structure and organization of financial markets the efficiency of markets and the determinants of asset pricing and interest rates Incorporating timely research and in depth analysis the Handbook of Finance is a comprehensive 3 Volume Set that covers both established and cutting edge theories and developments in finance and investing Other volumes in the set Handbook of Finance Volume II Investment Management and

Financial Management and Handbook of Finance Volume III Valuation Financial Modeling and Quantitative Tools

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**Candidate Readings, 2007: Portfolio management III**, 2006 **Excel Modeling in Investments** Craig W. Holden, 2005 This book with accompanying CD ROM gives readers the necessary information and skills they'll need to build step by step financial models in Excel Updated coverage keeps this book current and relevant and practical real world examples provide exciting learning opportunities The book progresses from simple examples to more complex topics including Portfolio Optimization that uses real data on 20 stocks to calculate the efficient frontier the tangent line the weights of the tangent portfolio and then graph everything US Yield Curve Dynamics that shows a movie of 30 years of monthly zero coupon yield curves highlighting the dynamics of the US yield curve history and a 50 Period Binomial Option Pricing model using a stock volatility that readers can estimate from real data Other subjects addressed are bonds fixed income securities stocks security analysis and options futures derivatives An excellent resource tool for security and stock analysts brokers and financial planners **Constructing a Global Minimum Variance Portfolio Using Microsoft Excel**

Kittima Kanmaravanich, Mahāwitthayālai Mahidon, Mahāwitthayālai Mahidon. International College, 2011 International Timberland Investments William R. Turner, 2001 Decision Support System for Portfolio Optimization, 1997 **Dr.**

**Dobb's Journal**, 2005 *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

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Introduction to Probability Models Wayne L. Winston,2004 Vol 2 CD ROM contains student editions of ProcessModel LINGO Premium Solver DecisionTools Suite including RISK AND RISKOptimizer Data files

Handbook of Finance, Investment Management and Financial Management Frank J. Fabozzi,2008-08-04 Volume II Investment Management and Financial Management focuses on the theories decisions and implementations aspects associated with both financial management and investment management It discusses issues that dominate the financial management arena capital structure dividend policies capital budgeting and working capital and highlights the essential elements of today s investment management environment which include allocating funds across major asset classes and effectively dealing with equity and fixed income portfolios Incorporating timely research and in depth analysis the Handbook of Finance is a comprehensive 3 Volume Set that covers both established and cutting edge theories and developments in finance and investing Other volumes in the set Handbook of Finance Volume I Financial Markets and Instruments and Handbook of Finance Volume III Valuation Financial Modeling and Quantitative Tools

Journal of Financial Education ,2009

**The Science of Decision Making** Eric V. Denardo,2002 Provides the reader with a perspective on the efficient operation of complicated systems Spreadsheets are used to employ and teach techniques Includes the facets of probability that relate to decision making

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