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MATHEWS JENNINGS

Springer Science & Business Media
A groundbreaking framework for improving portfolio performance that goes beyond traditional analytics, offering new ways to understand investment skills, process, and behaviors. Portfolio management is a tough business. Each day, managers face the challenges of an ever-changing and unforgiving market, where strategies and processes that worked yesterday may not work today, or tomorrow. The usual advice for improving portfolio performance—refining your strategy, staying within your style, doing better research, trading more efficiently—is important, but doesn't seem to affect outcomes sufficiently. This book, by an experienced advisor to institutional money managers, goes beyond conventional thinking to offer a new analytic framework that enables investors to improve their performance confidently, deliberately, and simply, by applying the principles of behavioral finance. W. Edwards Deming observed that you can't improve what you don't measure. Active portfolio management lacks methods for measuring key inputs to management success like skills, process, and behavioral tendencies. Michael Ervolini offers a conceptually straightforward and well-tested framework that does just that, with evidence of how it helps managers enhance self-awareness and become better investors. In a series of short, accessible chapters, Ervolini investigates a range of topics from psychology and neuroscience, describing their relevance to the challenges of portfolio management. Finally, Ervolini offers seven ideas for improving. These range from maintaining an investment diary to performing rudimentary calculations that quantify basic skills; each idea, or "project," helps managers gain a deeper understanding of their strengths and shortcomings and how to use this knowledge to improve investment performance.

A Practical Guide for Trustees of Pension Funds, Endowments and Foundations John Wiley & Sons
Long gone are the times when investors could make decisions based on intuition. Modern asset management draws on a wide-range of fields beyond financial theory: economics, financial accounting, econometrics/statistics, management science, operations research (optimization and Monte Carlo simulation), and more recently, data science (Big Data, machine learning, and artificial intelligence). The challenge in writing an institutional asset management book is that when tools from these different fields are applied in an investment strategy or an analytical framework for valuing securities, it is assumed that the reader is familiar with the fundamentals of these fields. Attempting to explain strategies and analytical concepts while also providing a primer on the tools from other fields is not the most effective way of describing the asset management process. Moreover, while an increasing number of investment models have been proposed in the asset management literature, there are challenges and issues in implementing these models. This book provides a description of the tools used in asset management as well as a more in-depth explanation of specialized topics and issues covered in the companion book, Fundamentals of Institutional Asset Management. The topics covered include the asset management business and its challenges, the basics of financial accounting, securitization technology, analytical tools (financial econometrics, Monte Carlo simulation, optimization models, and machine learning), alternative risk measures for asset allocation, securities finance, implementing quantitative research, quantitative equity strategies, transaction costs, multifactor models applied to equity and bond portfolio management, and backtesting methodologies. This pedagogic approach exposes the reader to the set of

interdisciplinary tools that modern asset managers require in order to extract profits from data and processes.
Systematic Investing in Credit Portfolio Construction and Analytics
The new edition of this influential textbook, geared towards graduate or advanced undergraduate students, teaches the statistics necessary for financial engineering. In doing so, it illustrates concepts using financial markets and economic data, R Labs with real-data exercises, and graphical and analytic methods for modeling and diagnosing modeling errors. These methods are critical because financial engineers now have access to enormous quantities of data. To make use of this data, the powerful methods in this book for working with quantitative information, particularly about volatility and risks, are essential. Strengths of this fully-revised edition include major additions to the R code and the advanced topics covered. Individual chapters cover, among other topics, multivariate distributions, copulas, Bayesian computations, risk management, and cointegration. Suggested prerequisites are basic knowledge of statistics and probability, matrices and linear algebra, and calculus. There is an appendix on probability, statistics and linear algebra. Practicing financial engineers will also find this book of interest.
Strategic Analysis Of Financial Markets, The (In 2 Volumes) John Wiley & Sons
This book provides the fundamentals of asset management. It takes a practical perspective in describing asset management. Besides the theoretical aspects of investment management, it provides in-depth insights into the actual implementation issues associated with investment strategies. The 19 chapters combine theory and practice based on the experience of the authors in the asset management industry. The book starts off with describing the key activities involved in asset management and the various

forms of risk in managing a portfolio. There is then coverage of the different asset classes (common stock, bonds, and alternative assets), collective investment vehicles, financial derivatives, common stock analysis and valuation, bond analytics, equity beta strategies (including smart beta), equity alpha strategies (including quantitative/systematic strategies), bond indexing and active bond portfolio strategies, and multi-asset strategies. The methods of using financial derivatives (equity derivatives, interest rate derivatives, and credit derivatives) in managing the risks of a portfolio are clearly explained and illustrated.

<u>Robust Equity Portfolio Management</u> Springer

This book discusses and explains the economics of each stage of the natural gas value chain, including the economic impact of restrictions, rules and decisions that are ostensibly technical in nature, as well as commercially relevant contractual stipulations. Each chapter features several real-world examples illustrating the essential points. Natural gas is broadly considered the (leading) conventional source of primary energy. Complementing renewable energies' utilization and offering a highly flexible yet relatively clean fuel, the worldwide natural gas markets are expected to grow. Despite the fact that Europe – where a degree of stagnation in natural gas consumption is being observed and is expected to continue – is not following this trend, international natural gas markets are becoming increasingly interdependent. Therefore, any analysis and discussion of natural gas markets at each level has to have an international rather than national focus.

Quantitative Equity Investing Pearson Education

A rare analytical look at the financial crisis using simple analysis The economic crisis that began in 2008 revealed the numerous problems in our financial system, from the way mortgage loans were produced to the way Wall Street banks leveraged themselves. Curiously enough, however, most of the reasons for the banking collapse are very similar to the reasons that Long-Term Capital Management (LTCM), the largest hedge fund to date, collapsed in 1998. The Crisis of Crowding looks at LTCM in greater detail, with new information, for a more accurate perspective, examining how the subsequent hedge funds started by Meriwether and former partners were destroyed again by the lapse of judgement in allowing Lehman Brothers to fail. Covering the lessons that were ignored

during LTCM's collapse but eventually connected to the financial crisis of 2008, the book presents a series of lessons for hedge funds and financial markets, including touching upon the circle of greed from homeowners to real estate agents to politicians to Wall Street. Guides the reader through the real story of Long-Term Capital Management with accurate descriptions, previously unpublished data, and interviews Describes the lessons that hedge funds, as well as the market, should have learned from LTCM's collapse Explores how the financial crisis and LTCM are a global phenomena rooted in failures to account for risk in crowded spaces with leverage Explains why quantitative finance is essential for every financial institution from risk management to valuation modeling to algorithmic trading Is filled with simple quantitative analysis about the financial crisis, from the Quant Crisis of 2007 to the failure of Lehman Brothers to the Flash Crash of 2010 A unique blend of storytelling and sound quantitative analysis, The Crisis of Crowding is one of the first books to offer an analytical look at the financial crisis rather than just an account of what happened. Also included are a layman's guide to the Dodd-Frank rules and what it means for the future, as well as an evaluation of the Fed's reaction to the crisis, QE1, QE2, and QE3.

<u>Artificial Intelligence in Asset Management</u> Wiley

A detailed, multi-disciplinary approach to investment analytics Portfolio Construction and Analytics provides an up-to-date understanding of the analytic investment process for students and professionals alike. With complete and detailed coverage of portfolio analytics and modeling methods, this book is unique in its multi-disciplinary approach. Investment analytics involves the input of a variety of areas, and this guide provides the perspective of data management, modeling, software resources, and investment strategy to give you a truly comprehensive understanding of how today's firms approach the process. Real-world examples provide insight into analytics performed with vendor software, and references to analytics performed with open source software will prove useful to both students and practitioners. Portfolio analytics refers to all of the methods used to screen, model, track, and evaluate investments. Big data, regulatory change, and increasing risk is forcing a need for a more coherent approach to all aspects of investment analytics, and this book provides the strong foundation and critical skills you need. Master the fundamental modeling concepts and widely used

analytics Learn the latest trends in risk metrics, modeling, and investment strategies Get up to speed on the vendor and open-source software most commonly used Gain a multi-angle perspective on portfolio analytics at today's firms Identifying investment opportunities, keeping portfolios aligned with investment objectives, and monitoring risk and performance are all major functions of an investment firm that relies heavily on analytics output. This reliance will only increase in the face of market changes and increased regulatory pressure, and practitioners need a deep understanding of the latest methods and models used to build a robust investment strategy. Portfolio Construction and Analytics is an invaluable resource for portfolio management in any capacity.

<u>Achieving Investment Excellence</u> CFA Institute Research Foundation

Praise for Robust Portfolio Optimization and Management "In the half century since Harry Markowitz introduced his elegant theory for selecting portfolios, investors and scholars have extended and refined its application to a wide range of real-world problems, culminating in the contents of this masterful book. Fabozzi, Kolm, Pachamanova, and Focardi deserve high praise for producing a technically rigorous yet remarkably accessible guide to the latest advances in portfolio construction." --Mark Kritzman, President and CEO, Windham Capital Management, LLC "The topic of robust optimization (RO) has become 'hot' over the past several years, especially in real-world financial applications. This interest has been sparked, in part, by practitioners who implemented classical portfolio models for asset allocation without considering estimation and model robustness a part of their overall allocation methodology, and experienced poor performance. Anyone interested in these developments ought to own a copy of this book. The authors cover the recent developments of the RO area in an intuitive, easy-to-read manner, provide numerous examples, and discuss practical considerations. I highly recommend this book to finance professionals and students alike." --John M. Mulvey, Professor of Operations Research and Financial Engineering, Princeton University

A Bayesian-Net Approach to Coherent Asset Allocation John Wiley & Sons

Artificial intelligence (AI) has grown in presence in asset management and has revolutionized the sector in many ways. It has improved portfolio management, trading, and risk management practices by increasing efficiency, accuracy, and compliance. In particular, AI techniques

help construct portfolios based on more accurate risk and return forecasts and more complex constraints. Trading algorithms use AI to devise novel trading signals and execute trades with lower transaction costs. AI also improves risk modeling and forecasting by generating insights from new data sources. Finally, robo-advisors owe a large part of their success to AI techniques. Yet the use of AI can also create new risks and challenges, such as those resulting from model opacity, complexity, and reliance on data integrity.

Empowering Economic Growth and Investment Portfolios McGraw Hill Professional

Bayesian Methods in Finance provides a detailed overview of the theory of Bayesian methods and explains their real-world applications to financial modeling. While the principles and concepts explained throughout the book can be used in financial modeling and decision making in general, the authors focus on portfolio management and market risk management—since these are the areas in finance where Bayesian methods have had the greatest penetration to date.

Factor Investing and Asset Allocation: A Business Cycle Perspective McGraw Hill Professional

"This new edition of Active Portfolio Management continues the standard of excellence established in the first edition, with new and clear insights to help investment professionals." -William E. Jacques, Partner and Chief Investment Officer, Martingale Asset Management. "Active Portfolio Management offers investors an opportunity to better understand the balance between manager skill and portfolio risk. Both fundamental and quantitative investment managers will benefit from studying this updated edition by Grinold and Kahn." -Scott Stewart, Portfolio Manager, Fidelity Select Equity ® Discipline Co-Manager, Fidelity Freedom ® Funds. "This Second edition will not remain on the shelf, but will be continually referenced by both novice and expert. There is a substantial expansion in both depth and breadth on the original. It clearly and concisely explains all aspects of the foundations and the latest thinking in active portfolio management." -Eric N. Remole, Managing Director, Head of Global Structured Equity, Credit Suisse Asset Management. Mathematically rigorous and meticulously organized, Active Portfolio Management broke new ground when it first became available to investment managers in 1994. By outlining an innovative process to uncover raw signals of asset returns, develop them

into refined forecasts, then use those forecasts to construct portfolios of exceptional return and minimal risk, i.e., portfolios that consistently beat the market, this hallmark book helped thousands of investment managers. Active Portfolio Management, Second Edition, now sets the bar even higher. Like its predecessor, this volume details how to apply economics, econometrics, and operations research to solving practical investment problems, and uncovering superior profit opportunities. It outlines an active management framework that begins with a benchmark portfolio, then defines exceptional returns as they relate to that benchmark. Beyond the comprehensive treatment of the active management process covered previously, this new edition expands to cover asset allocation, long/short investing, information horizons, and other topics relevant today. It revisits a number of discussions from the first edition, shedding new light on some of today's most pressing issues, including risk, dispersion, market impact, and performance analysis, while providing empirical evidence where appropriate. The result is an updated, comprehensive set of strategic concepts and rules of thumb for guiding the process of-and increasing the profits from-active investment management.

Natural Gas: A Commercial Perspective John Wiley & Sons

Crucial methods, tactics and tools for successful pension fund management Achieving Investment Excellence offers trustees and asset managers a comprehensive handbook for improving the quality of their investments. With a stated goal of substantially and sustainably improving annual returns, this book clarifies and demystifies important concepts surrounding trustee duties and responsibilities, investment strategies, analysis, evaluation and much more. Low interest rates are making the high cost of future pension payouts fraught with tension, even as the time and knowledge required to manage these funds appropriately increases — it is no wonder that pensions are increasingly seen as a financial liability. Now more than ever, it is critical that trustees understand exactly what contributes to investment success — and what detracts from it. This book details the roles, the tools and the strategies that make pension funds pay off. Understand the role of pension funds and the fiduciary duty of trustees Learn the tools and kills you need to build profound and lasting investment excellence Analyse, diagnose and improve investment quality of funds using concrete

tools and instruments Study illustrative examples that demonstrate critical implementation and execution advice Packed with expert insight, crucial tools and real-life examples, this book is an important resource for those tasked with governing these. Achieving Investment Excellence provides the expert insight, clear guidance and key wisdom you need to manage these funds successfully.

Hedge Fund Analysis Packt Publishing Ltd Praise for SYSTEMATIC INVESTING in CREDIT "Lev and QPS continue to shed light on the most important questions facing credit investors. This book focuses on their latest cutting-edge research into the appropriate role of credit as an asset class, the dynamics of credit benchmarks, and potential ways to benefit from equity information to construct effective credit portfolios. It is must-read material for all serious credit investors." —Richard Donick, President and Chief Risk Officer, DCI, LLC, USA "Lev Dynkin and his team continue to spoil us; this book is yet another example of intuitive, insightful, and pertinent research, which builds on the team's previous research. As such, the relationship with this team is one of the best lifetime learning experiences I have had." —Eduard van Gelderen, Chief Investment Officer, Public Sector Pension Investment Board, Canada "The rise of a systematic approach in credit is a logical extension of the market's evolution and long overdue. Barclays QPS team does a great job of presenting its latest research in a practical manner." —David Horowitz, Chief Executive Officer and Chief Investment Officer, Agilon Capital, USA "Systematization reduces human biases and wasteful reinventing of past solutions. It improves the chances of investing success. This book, by a team of experts, shows you the way. You will gain insights into the advanced methodologies of combining fundamental and market data. I recommend this book for all credit investors." —Lim Chow Kiat, Chief Executive Officer, GIC Asset Management, Singapore "For nearly two decades, QPS conducted extensive and sound research to help investors meet industry challenges. The proprietary research in this volume gives a global overview of cutting-edge developments in alpha generation for credit investors, from signal extraction and ESG considerations to portfolio implementation. The book blazes a trail for enhanced risk adjusted returns by exploring the cross-asset relation between stocks and bonds and adding relevant information for credit portfolio construction. Our core belief at Ostrum AM, is that a robust quantamental

approach, yields superior investment outcomes. Indeed, this book is a valuable read for the savvy investor." —Ibrahima Kobar, CFA, Global Chief Investment Officer, Ostrum AM, France "This book offers a highly engaging account of the current work by the Barclays QPS Group. It is a fascinating mix of original ideas, rigorous analytical techniques, and fundamental insights informed by a long history of frontline work in this area. This is a must-read from the long-time leaders in the field." —Professor Leonid Kogan, Nippon Telephone and Telegraph Professor of Management and Finance, MIT "This book provides corporate bond portfolio managers with an abundance of relevant, comprehensive, data-driven research for the implementation of superior investment performance strategies." —Professor Stanley J. Kon, Editor, Journal of Fixed income "This book is a treasure trove for both pension investors and trustees seeking to improve performance through credit. It provides a wealth of empirical evidence to guide long-term allocation to credit, optimize portfolio construction and harvest returns from systematic credit factors. By extending their research to ESG ratings, the authors also provide timely insights in the expanding field of sustainable finance." —Eloy Lindeijer, former Chief of Investment Management, PGGM, Netherlands "Over more than a decade, Lev Dynkin and his QPS team has provided me and APG with numerous innovative insights in credit markets. Their work gave us valuable quantitative substantiation of some of our investment beliefs. This book covers new and under-researched areas of our markets, like ESG and factor investing, next to the rigorous and practical work akin to the earlier work of the group. I'd say read this book—and learn from one of the best." —Herman Slooijer, Managing Director, Head of Fixed Income, APG Asset Management, Netherlands

An Active Approach to Portfolio Construction and Management John Wiley & Sons
A rigorous presentation of a novel methodology for asset allocation in financial portfolios under conditions of market distress.

Quant Copycats, Ugly Models, and the New Crash Normal Harriman House Limited
A comprehensive introduction to the key concepts of fixed income analytics The First Edition of Introduction to Fixed Income Analytics skillfully covered the fundamentals of this discipline and was the first book to feature Bloomberg screens in examples and illustrations.

Since publication over eight years ago, the markets have experienced cathartic change. That's why authors Frank Fabozzi and Steven Mann have returned with a fully updated Second Edition. This reliable resource reflects current economic conditions, and offers additional chapters on relative value analysis, value-at-risk measures and information on instruments like TIPS (treasury inflation protected securities). Offers insights into value-at-risk, relative value measures, convertible bond analysis, and much more Includes updated charts and descriptions using Bloomberg screens Covers important analytical concepts used by portfolio managers Understanding fixed-income analytics is essential in today's dynamic financial environment. The Second Edition of Introduction to Fixed Income Analytics will help you build a solid foundation in this field.

A practitioner's guide to the essentials of asset allocation McGraw Hill Professional
A comprehensive look at the tools and techniques used in quantitative equity management Some books attempt to extend portfolio theory, but the real issue today relates to the practical implementation of the theory introduced by Harry Markowitz and others who followed. The purpose of this book is to close the implementation gap by presenting state-of-the art quantitative techniques and strategies for managing equity portfolios. Throughout these pages, Frank Fabozzi, Sergio Focardi, and Petter Kolm address the essential elements of this discipline, including financial model building, financial engineering, static and dynamic factor models, asset allocation, portfolio models, transaction costs, trading strategies, and much more. They also provide ample illustrations and thorough discussions of implementation issues facing those in the investment management business and include the necessary background material in probability, statistics, and econometrics to make the book self-contained. Written by a solid author team who has extensive financial experience in this area Presents state-of-the art quantitative strategies for managing equity portfolios Focuses on the implementation of quantitative equity asset management Outlines effective analysis, optimization methods, and risk models In today's financial environment, you have to have the skills to analyze, optimize and manage the risk of your quantitative equity investments. This guide offers you the best information available to achieve this goal.

Practical Innovations for Measuring

and Controlling Liquidity, Spread, and Issuer Concentration Risk Cambridge University Press
A fresh approach to managing risk in the most challenging market conditions Strategic Risk Management presents an innovative approach to portfolio design. Often the risk management function is a series of tripwires that are activated after the portfolio is already in trouble. Strategic Risk Management presents a framework that seeks to integrate the initial portfolio design and the risk management function. Much of the book's research was conducted pre-COVID-19; the market selloff in March 2020 offers a unique out of sample experiment that provides evidence supportive of the approach. A crucial ingredient in this integrative design is to understand the performance of various investment strategies in stressful market conditions. The book begins by measuring the performance of various assets and strategies that purport to provide hedging abilities: such as put options and long gold positions. While put options are an extremely reliable, few would want to give up 700 basis points a year to buy this type of insurance. And even if gold does not have the type of drag that long options strategies do, gold turns out to be an unreliable hedge. We focus on two investments that historically offer impressive protection in adverse events: trend following strategies and quality-based equity strategies. We show that performance of trend following strategies is naturally linked to the payoff of a long call and long put position. This property is particularly useful in mitigating portfolio drawdowns. The book also considers operational strategies such as portfolio rebalancing. Most investors routinely rebalance their portfolios, for example, to a 60/40 equity/bond mix. However, few investors realize that a mechanical rebalancing strategy increases drawdowns and portfolio risk. The reason is simple. In extended equity sell offs, the rebalancing strategy is to buy, which increases drawdowns. Strategic Risk Management offers an intuitive solution. If the trend following signal suggests that the drawdown will continue, delay the rebalancing. We call this strategic rebalancing. The book contains various other insights, including analyzing the impact of a portfolio strategy that targets a certain risk level. This technique reduces allocations to the riskiest assets when volatility spikes. Given that surges in volatility are usually associated with plunging markets, this strategy also reduces drawdowns. The reader of this book will: Learn how to incorporate risk

management into the core portfolio design, rather than treating it as an afterthought; Gain a deeper understanding of concepts such as portfolio rebalancing; Acquire tools to achieve a more balanced return stream through volatility targeting of higher-risk asset classes; Obtain an overview of various defensive strategies, and learn which strategies offer the most reliable and affordable protection; Be equipped with a set of rules that allows for the early detection of strategies or managers that have faded. Strategic Risk Management is a thought-provoking resource for developing your portfolio design and risk management skills.
Managing Equity Portfolios MIT Press
A little book full of enormous value for novices and seasoned venture capitalists alike After having been thrown for a loop by the bursting of the tech bubble more than a decade ago, the venture capital industry suddenly has come roaring back to life over the past two years. In 2011 alone, more than $7.5 billion in venture capital was invested—representing more than a 19% increase over the previous year—in more than 966 companies. A majority of these companies reside in the life sciences, Internet, and alternative energy sectors. In today's weak job market, VC is more important than ever, since financing new tech, alternative energy, media, and other small to mid-sized companies is vital to creating new jobs. Written by Lou Gerken, a noted international authority on venture capital and alternative investments, this book tells you everything you need to know about the venture capital industry's important role in enhancing economic growth and employment. It is also the

perfect go to primer on making venture capital investments to enhance portfolio returns. Highly accessible explanations of the ins and outs of venture capital for would-be investors and experienced VCs Highlights the historical VC track record, and offers expert advice and guidance on venture capital exposure, investment options, sourcing opportunities and due diligence Provides proven strategies for successful investment selection, timing, monitoring, and exiting for optimum returns Features endorsements from luminaries of the VC world, including Kleiner Perkins Caufield & Byers co-founder Frank Caulfield, and Dr. Art Laffer, among others
World Scientific
An updated guide to the theory and practice of investment management Many books focus on the theory of investment management and leave the details of the implementation of the theory up to you. This book illustrates how theory is applied in practice while stressing the importance of the portfolio construction process. The Second Edition of The Theory and Practice of Investment Management is the ultimate guide to understanding the various aspects of investment management and investment vehicles. Tying together theoretical advances in investment management with actual practical applications, this book gives you a unique opportunity to use proven investment management techniques to protect and grow a portfolio under many different circumstances. Contains new material on the latest tools and strategies for both equity and fixed income portfolio management Includes key take-aways as

well as study questions at the conclusion of each chapter A timely updated guide to an important topic in today's investment world This comprehensive investment management resource combines real-world financial knowledge with investment management theory to provide you with the practical guidance needed to succeed within the investment management arena.
Bond Math John Wiley & Sons
A valuable guide to the essential elements of modern financial systems This book offers you a unified theory of modern financial system activity. In it, author Edwin Neave distills a large body of literature on financial systems, the institutions that comprise the systems, and the economic impacts of the systems' operation. Through non-technical summaries, Neave provides you with a primer on how financial systems work, as well as how the many parts of any financial system relate to each other. He does so in a straightforward manner, with an emphasis on economic principles and the relationship between various aspects of financial system activity. Discusses financial governance and explains how financial markets and institutions complement each other Identifies the economic forces at work within financial systems and explores how they determine system organization and change Offers a theoretical survey of financial activity and its application to numerous practical situations Explains both static financial system organization and the dynamics of financial system evolution Following a non-technical approach, this book skillfully explores how financial systems work, as well as how the many parts of any financial system relate to each other.