

# Portfolio Risk Management: Definition, Importance, Types, Measurement, Strategies, Tools



**Strike**

# Measurement Of Portfolio Risk

**Wolfgang Marty**

## **Measurement Of Portfolio Risk:**

*Portfolio Risk Analysis* Gregory Connor,Lisa R. Goldberg,Robert A. Korajczyk,2010-03-15 Portfolio risk forecasting has been and continues to be an active research field for both academics and practitioners Almost all institutional investment management firms use quantitative models for their portfolio forecasting and researchers have explored models econometric foundations relative performance and implications for capital market behavior and asset pricing equilibrium Portfolio Risk Analysis provides an insightful and thorough overview of financial risk modeling with an emphasis on practical applications empirical reality and historical perspective Beginning with mean variance analysis and the capital asset pricing model the authors give a comprehensive and detailed account of factor models which are the key to successful risk analysis in every economic climate Topics range from the relative merits of fundamental statistical and macroeconomic models to GARCH and other time series models to the properties of the VIX volatility index The book covers both mainstream and alternative asset classes and includes in depth treatments of model integration and evaluation Credit and liquidity risk and the uncertainty of extreme events are examined in an intuitive and rigorous way An extensive literature review accompanies each topic The authors complement basic modeling techniques with references to applications empirical studies and advanced mathematical texts This book is essential for financial practitioners researchers scholars and students who want to understand the nature of financial markets or work toward improving them The measurement of portfolio risk exposure Frank B.

Campanella,1972 Security Analysis and Portfolio Management: Ranganatham,2011 The revised and enlarged second edition of Security Analysis and Portfolio Management provides a more comprehensive coverage of concepts It has been expanded to strengthen the conceptual foundation and incorporates the latest research and up to date thinking in all the chapters This edition contains completely new chapters on portfolio risk analysis portfolio building process mutual fund management portfolio performance evaluations and hedging portfolio risk have been included The volume also contains an Indian perspective that has been presented through cases and examples to help students from Indian business schools relate to the concepts discussed Each chapter begins with a feature called The Situation in which managers in a fictitious company must make certain key decisions in the derivatives market

*The VAR Implementation Handbook, Chapter 14 - A Model to Measure Portfolio Risks in Venture Capital* Greg N. Gregoriou,2009-02-19 The following is a chapter from The VaR Implementation Handbook which examines the latest strategies for measuring managing and modeling risk across a variety of applications Packed with the insights methods and models that make experienced professionals competitive all over the world this comprehensive guide features cutting edge research and findings from some of the industry's most respected academics practitioners and consultants Investment Analysis & Portfolio Management Frank K. Reilly,Keith C. Brown,Brindha Gunasingham,Asjeet Lamba,Dr Frank Elston,2019-11-19 This first Asia Pacific edition of Reilly Brown's Investment Analysis and Portfolio Management builds on the authors strong reputations for combining solid theory with

practical application and has been developed especially for courses across the Australia New Zealand and Asia Pacific regions. The real world illustrations and hands on activities enhance an already rigorous empirical approach to topics such as investment instruments capital markets behavioural finance hedge funds and international investment. The text also emphasises how investment practice and theory are influenced by globalisation. Equity Markets and Portfolio Analysis R. Stafford Johnson, 2014-06-05. Understand today's investment challenges and the role of the Bloomberg system. In recent years changes have swept through the investment industry like wildfire. Academia has followed along and provided new lenses for viewing this transformation as well as new strategies for gaining a true understanding and knowledge of investment and financial markets. Now Equity Markets and Portfolio Analysis has been created to further inform investment professionals and finance students on the basic concepts and strategies of investments and to provide more detailed discussions on advanced strategies and models. The concepts covered in this book will help readers gain a better understanding of the markets and uses for an increasing number of securities strategies and methodologies. Equity Markets and Portfolio Analysis is the only core investment book that covers the functionality of Bloomberg terminals increasingly critical tools both in the classroom and on the trading floor. As Bloomberg terminals now play a key role in the research teaching and managing of student investment funds understanding the system's information and analytical functions has become more important than ever. In depth coverage of fundamentals through more detailed concepts for students and professionals who want to better understand the evaluation selection and management of securities. One of a kind training and instructional course introduction to Bloomberg investment subjects and reference for CFA preparation. Bloomberg material provided in an appendix accompanying each chapter a useful option for professors. Ideal for finance practitioners investment bankers and academics. This unique resource will give readers both the foundational knowledge and the analytical tools necessary for investment success both in the classroom and in the real world. Portfolio Management in Practice Christine Brentani, 2003-12-05. As individuals are becoming more and more responsible for ensuring their own financial future portfolio or fund management has taken on an increasingly important role in banks ranges of offerings to their clients. In addition as interest rates have come down and the stock market has gone up and come down again clients have a choice of leaving their saving in deposit accounts or putting those savings in unit trusts or investment portfolios which invest in equities and or bonds. Individuals are becoming aware that they might need to top up government pension allocations. Likewise corporations who run employee pension schemes have to ensure that they are able to cover their current and future liabilities. Investing in unit trusts or mutual funds is one way for individuals and corporations alike to potentially enhance the returns on their savings. Introduction to Portfolio Management covers the Theoretical underpinnings of portfolio management. Basics of portfolio construction. Constraints to be considered when building a client portfolio. Types of analysis used for asset allocation and stock selection. Main types of funds available to investors. Inspired from the basic entry level training courses that have

been developed by major international banks worldwide Will enable MSc Finance students MBA students and those already in the finance profession to gain an understanding of the basic information and principles underlying the topic under discussion Questions with answers study topics practical real world examples and text with an extensive bibliography and references ensure learning outcomes can be immediately applied

*The Measurement of Portfolio Risk Exposure; Use of the Beta Coefficient [By] Frank B. Campanella* Frank B. Campanella,1972

**Risk Management** Walter V. "Bud" Haslett, Jr.,2010-10-05 Key readings in risk management from CFA Institute the preeminent organization representing financial analysts Risk management may have been the single most important topic in finance over the past two decades To appreciate its complexity one must understand the art as well as the science behind it Risk Management Foundations for a Changing Financial World provides investment professionals with a solid framework for understanding the theory philosophy and development of the practice of risk management by Outlining the evolution of risk management and how the discipline has adapted to address the future of managing risk Covering the full range of risk management issues including firm portfolio and credit risk management Examining the various aspects of measuring risk and the practical aspects of managing risk Including key writings from leading risk management practitioners and academics such as Andrew Lo Robert Merton John Bogle and Richard Bookstaber For financial analysts money managers and others in the finance industry this book offers an in depth understanding of the critical topics and issues in risk management that are most important to today s investment professionals

**Risk and Portfolio Analysis** Henrik Hult,Filip Lindskog,Ola Hammarlid,Carl Johan Rehn,2012-07-20

Investment and risk management problems are fundamental problems for financial institutions and involve both speculative and hedging decisions A structured approach to these problems naturally leads one to the field of applied mathematics in order to translate subjective probability beliefs and attitudes towards risk and reward into actual decisions In Risk and Portfolio Analysis the authors present sound principles and useful methods for making investment and risk management decisions in the presence of hedgeable and non hedgeable risks using the simplest possible principles methods and models that still capture the essential features of the real world problems They use rigorous yet elementary mathematics avoiding technically advanced approaches which have no clear methodological purpose and are practically irrelevant The material progresses systematically and topics such as the pricing and hedging of derivative contracts investment and hedging principles from portfolio theory and risk measurement and multivariate models from risk management are covered appropriately The theory is combined with numerous real world examples that illustrate how the principles methods and models can be combined to approach concrete problems and to draw useful conclusions Exercises are included at the end of the chapters to help reinforce the text and provide insight This book will serve advanced undergraduate and graduate students and practitioners in insurance finance as well as regulators Prerequisites include undergraduate level courses in linear algebra analysis statistics and probability

*Applying Economic Analysis to Portfolio Management* Robert D.

Arnott,1985    **Portfolio Analysis** Jack Clark Francis,Stephen Hunt Archer,1971    *RiskGrade Your Investments* Gregory Elmiger,Steve S. Kim,2003-04-07 Praise for RiskGrade Your Investments In the same way that the introduction of RiskMetrics raised the level of the discussion and sometimes debate regarding market risk measurement and management at large financial institutions the introduction of RiskGrades and this book represent a major step in the understanding and application of risk measurement and management techniques by individual investors Charles Smithson Managing Partner Rutter Associates and author of Managing Financial Risk What Others Are Saying About RiskGrades com Forbes best of the web 2002 Savvy analysis all free A new and impressive Web based service that promises to offer a clue to the question of how risky is your portfolio RiskMetrics has been measuring portfolio risk for big financial institutions since 1994 and now sheds some light on investor risk RiskGrades helps investors combine risk and return to make proper investment decisions BusinessWeek Owning a high percentage of company stock in a retirement plan any more than 20 percent is one of the riskiest propositions in investing and yet employees almost never measure this risk objectively or reduce their positions It is easy to approximate investment risk A useful tool for measuring risk is available through RiskMetrics Group s www riskgrades com a service that will measure the volatility and return of single securities or whole portfolios against all asset classes and international regions Financial Times Without divining what exactly a fund owns the system simply distills risk down to the likelihood of finding a severe change in its value on a given day Running a few notable funds through the rating bath can be a useful check on what an investor is putting on the line for a given dollar of investment gains Barron s Mathematicians and economists use complex computer programs to examine the effects of different shocks on different portfolios Such tests have been used for several years by professionals who manage multimillion dollar investment funds But RiskMetrics a spinoff of J P Morgan Chase is now providing similar tools for individual investors RiskMetrics runs a Web site www riskgrades com which investors can use free of charge The Web site allows investors to stress test individual stocks and mutual funds as well as portfolios The Wall Street Journal    [Dynamic Portfolio Construction and Portfolio Risk Measurement](#) Murat Mazibas,2011 The research presented in this thesis addresses different aspects of dynamic portfolio construction and portfolio risk measurement It brings the research on dynamic portfolio optimization replicating portfolio construction dynamic portfolio risk measurement and volatility forecast together The overall aim of this research is threefold First it is aimed to examine the portfolio construction and risk measurement performance of a broad set of volatility forecast and portfolio optimization model Second in an effort to improve their forecast accuracy and portfolio construction performance it is aimed to propose new models or new formulations to the available models Third in order to enhance the replication performance of hedge fund returns it is aimed to introduce a replication approach that has the potential to be used in numerous applications in investment management In order to achieve these aims Chapter 2 addresses risk measurement in dynamic portfolio construction In this chapter further evidence on the use of multivariate conditional

volatility models in hedge fund risk measurement and portfolio allocation is provided by using monthly returns of hedge fund strategy indices for the period 1990 to 2009 Building on Giamouridis and Vrontos 2007 a broad set of multivariate GARCH models as well as the simpler exponentially weighted moving average EWMA estimator of RiskMetrics 1996 are considered It is found that while multivariate GARCH models provide some improvements in portfolio performance over static models they are generally dominated by the EWMA model In particular in addition to providing a better risk adjusted performance the EWMA model leads to dynamic allocation strategies that have a substantially lower turnover and could therefore be expected to involve lower transaction costs Moreover it is shown that these results are robust across the low volatility and high volatility sub periods Chapter 3 addresses optimization in dynamic portfolio construction In this chapter the advantages of introducing alternative optimization frameworks over the mean variance framework in constructing hedge fund portfolios for a fund of funds Using monthly return data of hedge fund strategy indices for the period 1990 to 2011 the standard mean variance approach is compared with approaches based on CVaR CDaR and Omega for both conservative and aggressive hedge fund investors In order to estimate portfolio CVaR CDaR and Omega a semi parametric approach is proposed in which first the marginal density of each hedge fund index is modelled using extreme value theory and the joint density of hedge fund index returns is constructed using a copula based approach Then hedge fund returns from this joint density are simulated in order to compute CVaR CDaR and Omega The semi parametric approach is compared with the standard non parametric approach in which the quantiles of the marginal density of portfolio returns are estimated empirically and used to compute CVaR CDaR and Omega Two main findings are reported The first is that CVaR CDaR and Omega based optimization offers a significant improvement in terms of risk adjusted portfolio performance over mean variance optimization The second is that for all three risk measures semi parametric estimation of the optimal portfolio offers a very significant improvement over non parametric estimation The results are robust to as the choice of target return and the estimation period Chapter 4 searches for improvements in portfolio risk measurement by addressing volatility forecast In this chapter two new univariate Markov regime switching models based on intraday range are introduced A regime switching conditional volatility model is combined with a robust measure of volatility based on intraday range in a framework for volatility forecasting This chapter proposes a one factor and a two factor model that combine useful properties of range regime switching nonlinear filtration and GARCH frameworks Any incremental improvement in the performance of volatility forecasting is searched for by employing regime switching in a conditional volatility setting with enhanced information content on true volatility Weekly S P500 index data for 1982 2010 is used Models are evaluated by using a number of volatility proxies which approximate true integrated volatility Forecast performance of the proposed models is compared to renowned return based and range based models namely EWMA of Riskmetrics hybrid EWMA of Harris and Yilmaz 2009 GARCH of Bollerslev 1988 CARR of Chou 2005 FIGARCH of Baillie et al 1996 and MRSGARCH of Klaassen 2002 It is found that the proposed models produce more

accurate out of sample forecasts contain more information about true volatility and exhibit similar or better performance when used for value at risk comparison Chapter 5 searches for improvements in risk measurement for a better dynamic portfolio construction This chapter proposes multivariate versions of one and two factor MRSACR models introduced in the fourth chapter In these models useful properties of regime switching models nonlinear filtration and range based estimator are combined with a multivariate setting based on static and dynamic correlation estimates In comparing the out of sample forecast performance of these models eminent return and range based volatility models are employed as benchmark models A hedge fund portfolio construction is conducted in order to investigate the out of sample portfolio performance of the proposed models Also the out of sample performance of each model is tested by using a number of statistical tests In particular a broad range of statistical tests and loss functions are utilized in evaluating the forecast performance of the variance covariance matrix of each portfolio It is found that in terms statistical test results proposed models offer significant improvements in forecasting true volatility process and in terms of risk and return criteria employed proposed models perform better than benchmark models Proposed models construct hedge fund portfolios with higher risk adjusted returns lower tail risks offer superior risk return tradeoffs and better active management ratios However in most cases these improvements come at the expense of higher portfolio turnover and rebalancing expenses Chapter 6 addresses the dynamic portfolio construction for a better hedge fund return replication and proposes a new approach In this chapter a method for hedge fund replication is proposed that uses a factor based model supplemented with a series of risk and return constraints that implicitly target all the moments of the hedge fund return distribution The approach is used to replicate the monthly returns of ten broad hedge fund strategy indices using long only positions in ten equity bond foreign exchange and commodity indices all of which can be traded using liquid investible instruments such as futures options and exchange traded funds In out of sample tests proposed approach provides an improvement over the pure factor based model offering a closer match to both the return performance and risk characteristics of the hedge fund strategy indices *Measuring Integrated Market and Credit Risks in Bank Portfolios* Theodore M. Barnhill, Panagiotis Papapanagiotou, Liliana Schumacher, 2000

Investment Analysis and Portfolio Management Jerome B. Cohen, Edward D. Zinbarg, Arthur Zeikel, 1977 **Portfolio Analytics** Wolfgang Marty, 2014-02-19 This textbook first introduces the reader to return measurement and then goes on to compare the time weighted rate of return TWR with the money weighted rate of return MWR To emphasize the importance of risk in conjunction with return different tracking errors are analyzed and ex post versus ex ante risk figures are compared The author then proceeds to modern portfolio theory MPT and illustrates how the constraints interfere substantially in the construction of optimized portfolios As a conclusion the book provides the reader with all the essential aspects of investment controlling **The Fundamentals of Risk Measurement** Christopher Marrison, 2002-06-27 TABLE OF CONTENTS Chapter 1 The Basics of Risk Management This chapter introduces how banks work It describes how they make money how

they often lose money and how they try to manage their losses It includes thirteen short case studies showing how banks have lost money Chapter 2 Risk Measurement at the Corporate Level Economic Capital and RAROC Chapter Two discusses the meaning of capital and how the risks that a bank faces are related to the amount of capital that the bank should hold It then describes the two fundamental building blocks of integrated risk measurement Economic Capital and Risk Adjusted Return on Capital RAROC Chapter 3 Review of Statistics Chapter Three is useful for those readers who do not have a recent working knowledge of statistics It reviews the statistical relationships that are commonly used in risk measurement and provides reference material for the rest of the book Examples are provided using financial loss data MARKET RISK SECTION Chapter 4 Background on Traded Instruments This chapter gives an overview of the main types of traded instruments bonds equities and derivatives It gives a qualitative description of the instrument examples of calculating the instrument's value and the basic risk metrics such as duration and the Greeks This chapter is useful for those readers who are new to the finance industry Chapter 5 Market Risk Measurement This chapter describes the most common ways to measure market risks Sensitivity analysis Stress testing Scenario testing Sharpe Ratio and Value at Risk It gives detailed examples of using each of the metrics Chapter 6 The Three Common Approaches for Calculating Value at Risk Value at Risk VaR has become the standard approach for measuring market risk This chapter is devoted to explaining the details of the three common approaches to calculating VaR Parametric VaR Historical VaR and Monte Carlo VaR We work through increasingly complex examples and compare the strengths of each approach Note many readers will be particularly interested in this chapter because the name VaR is well known and has a certain mystery Chapter 7 Value at Risk Contribution The Value at Risk Contribution VaRC is a useful way of pinpointing the source of the portfolio's risk VaRC can break down the risk by instrument trading desk or market risk factor Examples are given for several types of VaRC Chapter 8 Testing VaR Results to Ensure Proper Risk Measurement This chapter discusses the procedures required by regulators to backtest VaR calculators to check that their predictions of losses are consistent with market events Chapter 9 Calculating Capital for Market Risk VaR is used as the basis for calculating both Regulatory Capital and Economic Capital for Market Risks In this chapter VaR also extended to measure the risk of Asset Management operations Chapter 10 Overcoming VaR Limitations Although VaR is the best single metric for market risks it has several limitations The limitations and typical solutions are discussed in this chapter Chapter 11 The Management of Market Risk This chapter concludes the market risk section by describing how the results of risk measurement are used by management to identify the sources of risk It also describes the process of setting VaR Limits Note readers should be particularly interested in VaR Limits because it is difficult and an important element in controlling a bank's risk ASSET LIABILITY MANAGEMENT SECTION Chapter 12 Introduction to Asset Liability Management Asset Liability Management ALM is primarily concerned with the interest rate and liquidity risks that are created when commercial banks take in short term deposits from customers and give out long term loans This chapter describes how those risks arise and the

risk characteristics of different types of deposits and loans Chapter 13 Measurement of Interest Rate Risk for ALM This chapter discussed the primary techniques used to measure interest rate risk Gap reports Rate shift scenarios and Simulations Chapter 14 Funding Liquidity Risk in ALM The measurement of liquidity risk is broken into three groups expected unusual and crisis events Measurement techniques are given for each group Chapter 15 Funds Transfer Pricing and the Management of ALM Risks A key use of asset liability measurement is the calculation of the fair price at which funds should be lent from one department to another within a bank This is one of the keys to integrated risk measurement and is a critical component in measuring risk adjusted profitability and setting prices to customers A typical balance sheet is used to illustrate how transfer pricing works in detail CREDIT RISK SECTION Chapter 16 Introduction to Credit Risk This chapter discusses the sources of credit risk and how measurement is used to manage the risks Chapter 17 Types of Credit Structure For readers who are unfamiliar with lending operations we discuss the ways that credit exposures are structured in commercial and retail lending It also describes the calculation of credit exposure for derivatives trading operations and gives an overview of credit derivatives Chapter 18 Risk Measurement for a Single Facility This chapter shows how the Expected Loss and Unexpected Loss for a loan can be calculated from the Probability of Default Loss In the Event of Default Exposure at Default and the Grade Migration Matrix Chapter 19 Estimating Parameter Values for Single Facilities One of the main difficulties in credit risk measurement is the estimation of values for Probability of Default Loss Given Default and Exposure at Default This chapter discusses estimation techniques such as Discriminant Analysis and the Merton Model It also gives parameter values that can be used as the basis for the reader s own models The parameter values are used in examples to demonstrate how the credit risk calculations are used Chapter 20 Risk Measurement For A Credit Portfolio Part One To estimate the overall risk for a portfolio many credit instruments we must examine the correlation between losses This chapter describes the Covariance Credit Portfolio Model and the different approaches available for estimating default correlations It also describes how the correlations can be used to estimate the Unexpected Loss Contribution and the Economic Capital for a single facility within a portfolio Chapter 21 Risk Measurement For A Credit Portfolio Part Two This chapter describes the four other widely used approaches for estimating the risk of credit portfolios the actuarial model the Merton based simulation model the macro economic default model and the macro economic cashflow model used for structured and project finance It concludes with a section describing how the models can be combined in a unified framework to create an integrated simulation of all the bank s risks Chapter 22 Risk Adjusted Performance and Pricing for Loans Knowing the economic capital for a loan this chapter shows how to calculate the minimum price that should be charged to a loan customer The analysis shows how to include multi year effects such as grade migration Illustrative examples are included Note this chapter should be of interest to readers because loan pricing is another difficult and important subject that is rarely discussed in other books Chapter 23 Regulatory Capital for Credit Risk The Basel Committee on Banking Supervision often called the BIS is planning fundamental

changes to the way that banks must calculate the capital that they hold. The new calculations will be very similar to the calculations described in the rest of this book for economic capital. This chapter summarizes the history of the Capital Accords and compares the different approaches that the BIS will allow. It also gives a standard plan for implementing the new Accords. Note this should be of interest to readers because the shift to BIS measurement is of major importance. It will be difficult for most banks and it must be completed by 2005.

**OPERATING RISK SECTION** Chapter 24 Operating risk. The quantification of Operating Risks is on the frontier of the industry's understanding of risk measurement. The risk estimation approaches can be categorized as either qualitative, structural or actuarial. These approaches are described, including Key Risk Indicators and the BIS approaches.

**INTEGRATED RISK SECTION** Chapter 25 Inter risk, Diversification and Bank Level RAROC. This chapter describes how all the models are linked to calculate Economic Capital and Risk Adjusted Profitability for the Bank as a whole. It concludes with the steps normally required to implement the bank wide measurement of Economic Capital and RAROC.

**Interest Rate Risk Measurement and Management** Sanjay K. Nawalkha, Donald R. Chambers, 1999. Interest Rate Risk Measurement and Management presents a collection of the key contributions in fixed income investment research. This complete practitioners manual showcases every major topic in interest rate risk management with detailed analyses and full treatment of equations and statistical measures. It is a substantial investment resource on single and multi factor duration risk measures, interest rate risk models for fixed income derivatives and interest rate risk models for depositories, thrifts, the FDIC, insurers and pension funds.

*Impacts of Investment Horizon on the Estimation of Beta Coefficient, Jensen Measure, and Efficient Frontier* Alan R. Andreasen, Charles Eugene Blair, Cheng F. Lee, Frank K. Reilly, Hans Brems, James A. Gentry, James B. Kau, Jane H. Leuthold, John Fitzgerald Due, Jonathan A. K. Cave, Paul Newbold, R. Stephen Sears, Thomas Ulen, William S. Hopwood, 1981.

This book delves into Measurement Of Portfolio Risk. Measurement Of Portfolio Risk is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Measurement Of Portfolio Risk, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

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- Chapter 2: Essential Elements of Measurement Of Portfolio Risk
- Chapter 3: Measurement Of Portfolio Risk in Everyday Life
- Chapter 4: Measurement Of Portfolio Risk in Specific Contexts
- Chapter 5: Conclusion

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4. In chapter 3, the author will examine the practical applications of Measurement Of Portfolio Risk in daily life. This chapter will showcase real-world examples of how Measurement Of Portfolio Risk can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Measurement Of Portfolio Risk in specific contexts. This chapter will explore how Measurement Of Portfolio Risk is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Measurement Of Portfolio Risk. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Measurement Of Portfolio Risk.

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## **Measurement Of Portfolio Risk Introduction**

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