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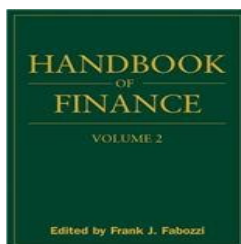
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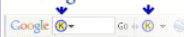
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Contributors	xv
Preface	xxiii
Guide to the Handbook of Finance	xxv
Volume I	
PART 1 Market Players and Markets	1 (122)
Overview of Financial Instruments and Financial Markets	3 (6)
Frank J. Fabozzi	
Fundamentals of Investing	9 (8)
Frank J. Fabozzi	
The American Banking System	17 (12)
R. Philip Giles	
Monetary Policy: How the Fed Sets, Implements, and Measures Policy Choices	29 (8)
David M. Jonesand	
Ellen J. Rachlin	
Institutional Aspects of the Securities Markets	37 (14)
James R. Thompson	
Edward E. Williams	
M. Chapman Findlay, III	
Investment Banking	51 (10)
K. Thomas Liaw	
Securities Innovation	61 (32)
John D. Finnerty	
An Arbitrage Perspective of the Purpose and Structure of Financial Markets	93 (14)
Robert Dubil	
Complete Markets	107(8)
Les Gulko	
Introduction to Islamic Finance	115(8)
Mahmoud A.El-Gamal	
PART 2 Common Stock	123(82)
Cash Instruments	
The U.S. Equity Markets	125(26)
Frank J. Jonesand	
Frank J. Fabozzi	
The Information Content of Short Sales	151(12)
Steven L. Jonesand	
Glen Larsen	
Emerging Stock Market Investment	163(12)
Larry Speldelland	
Jarrold W. Wilcox	
Equity Derivatives	
Listed Equity Options and Futures	175(6)
Bruce Collinsand	
Frank J. Fabozzi	
OTC Equity Derivatives	181(10)
Bruce Collinsand	
Frank J. Fabozzi	
Volatility Derivatives	191(14)
Robert Whaley	
PART 3 Fixed Income Instruments	205(276)
Basics	
Bonds: Investment Features and Risks	207(14)
Frank J. Fabozzi	
Residential Mortgages	221(10)
Frank J. Fabozzi	
Anand K. Bhattacharya	
William S. Berliner	
Reverse Mortgages	231(6)
Laurie S. Goodman	
Nonmortgage Related Fixed Income Securities and Money Market Instruments	
U.S. Treasury Securities	237(6)
Frank J. Fabozzi	
Federal Agency Securities	243(6)
Frank J. Fabozziand	
George P. Kegler	
Municipal Securities	249(10)
Frank J. Fabozzi	
Corporate Fixed Income Securities	259(12)
Frank J. Fabozzi	

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The Eurobond Market	271 (14)
Moorad Choudhry	
The Euro Government Bond Market	285 (10)
Antonio Villarroya	
The German Pfandbrief and European Covered Bonds Market	295 (10)
Graham ``Harry`` Cross	
Commercial Paper	305 (8)
Moorad Choudhry	
Frank J. Fabozzi	
Steven V. Mann	
Money Market Calculations	313 (6)
Steven V. Mann	
Frank J. Fabozzi	
Convertible Bonds	319 (6)
Frank J. Fabozzi	
Steven V. Mann	
Filippo Stefanini	
Syndicated Loans	325 (14)
Steven Miller	
Emerging Markets Debt	339 (8)
Maria Mednikov Loucks	
John A. Penicook	
Uwe Schillhorn	
Structured Products	
Introduction to Mortgage-Backed Securities	347 (8)
Frank J. Fabozzi	
Anand K. Bhattacharya	
William S. Berliner	
Structuring Collateralized Mortgage Obligations and Interest-Only/Principal-Only Securities	355 (12)
Andrew Davidson	
Anthony Sanders	
Lan-Ling Wolff	
Anne Ching	
Commercial Mortgage-Backed Securities	367 (8)
James Manzi	
Diana Berezina	
Mark Adelson	
Nonmortgage Asset-Backed Securities	375 (10)
Frank J. Fabozzi	
Laurie S. Goodman	
Douglas J. Lucas	
Synthetic Asset-Backed Securities	385 (4)
Moorad Choudhry	
Catastrophe Bonds	389 (6)
William L. Messmore	
Beth Starr	
Sunita Ganapati	
Mark Retik	
Paul Puleo	
Collateralized Debt Obligations	395 (16)
Douglas J. Lucas	
Laurie S. Goodman	
Frank J. Fabozzi	
Fixed Income and Inflation Derivatives	
Interest Rate Futures and Forward Rate Agreements	411 (10)
Frank J. Fabozzi	
Steven V. Mann	
Interest Rate Swaps	421 (6)
Frank J. Fabozzi	
Gerald W. Buetow	
Interest Rate Options and Related Products	427 (8)
Frank J. Fabozzi	
Steven V. Mann	
Moorad Choudhry	
Introduction to Credit Derivatives	435 (12)
Vinod Kothari	
Fixed Income Total Return Swaps	447 (8)
Mark J.P. Anson	
Frank J. Fabozzi	
Moorad Choudhry	
Ren-Raw Chen	
Bond Market	
Bond Market Transparency	455 (8)
Daniel E. Gallegos	
Chris Barr	
Bond Spreads and Relative Value	463 (6)
Moorad Choudhry	
The Determinants of the Swap Spread and Understanding the LIBOR Term Premium	469 (12)
Moorad Choudhry	
PART 4 Real Estate	481 (54)
Real Estate Investment	483 (12)
Susan Hudson-Wilson	
Investing in Commercial Real Estate for Individual Investors	495 (10)
G. Timothy Haight	
Daniel D. Singer	
Types of Commercial Real Estate	505 (10)
G. Timothy Haight	
Daniel D. Singer	
Commercial Real Estate Loans and Securities	515 (10)
Rebecca J. Manning	
Douglas J. Lucas	
Laurie S. Goodman	
Frank J. Fabozzi	
Commercial Real Estate Derivatives	525 (10)
Jeffrey D. Fisher	
David Geltner	
PART 5 Alternative Investments	535 (84)
Alternative Asset Classes	537 (6)
Mark J. P. Anson	
Hedge Funds	543 (18)
Mark J. P. Anson	
Introduction to Venture Capital	561 (14)
Mark J. P. Anson	
Assessing Hedge Fund Investment Risk in Common Hedge Fund Strategies	575 (10)
Ellen J. Rachlin	
Diversify a Portfolio with Tangible Commodities	585 (8)
Henry G. Jarecki	
Terrence F. Martell	
The Fundamentals of Commodity Investments	593 (12)
Frank J. Fabozzi	
Roland Fuss	
Dieter G. Kaiser	
Art Finance	605 (6)
Rachel A. J. Campbell	
Investing in Life Settlements	611 (8)
Anthony F. L. Pecore	
PART 6 Investment Companies, ETFs, and Life Insurance Products	619 (56)
Investment Companies	621 (12)
Frank J. Jones	
Frank J. Fabozzi	
Exchange-Traded Funds	633 (10)
Gary L. Gastineau	
Investment-Oriented Life Insurance	643 (14)
Frank J. Jones	
Stable Value Investment Options for Defined Contribution Plans	657 (18)
Brian K. Haendiges	

PART 7 Foreign Exchange	675(40)
An Introduction to Spot Foreign Exchange	677(10)
Shani Shamah	
An Introduction to Foreign Exchange Derivatives	687(14)
Shani Shamah	
Introduction to Foreign Exchange Options	701(14)
Shani Shamah	
PART 8 Inflation-Hedging Products	715(26)
Inflation-Linked Bonds	717(12)
P. Brett Hammond	
Introduction to Inflation Derivatives	729(12)
Jeroen Kerkhof	
PART 9 Securities Finance	741
An Introduction to Securities Lending	743(14)
Mark C. Faulkner	
Mechanics of the Equity Lending Market	757(4)
Jeff Cohen	
David Haushalter	
Adam V. Reed	
Securities Lending, Liquidity, and Capital Market-Based Finance	761(8)
Repurchase Agreements and Dollar Rolls	769
Frank J. Fabozzi	
Steven V. Mann	
Volume II	
PART 1 Investment Management	1 (236)
Foundations	
Portfolio Selection	3 (12)
Frank J. Fabozzi	
Harry M. Markowitz	
Francis Gupta	
Asset Pricing Models	15 (10)
Frank J. Fabozzi	
Stochastic Growth and Discretionary Wealth	25 (10)
Jarrold W. Wilcox	
Why Quantitative Investment Management?	35 (8)
Jarrold W. Wilcox	
Quantitative Investment Management: Today and Tomorrow	43 (10)
Petter N. Kolm	
Sergio M. Focardi	
Frank J. Fabozzi	
Dessislava A. Pachamanova	
Actuaries' Evaluation of the Utility of Financial Economics	53 (12)
Shane Whelan	
Investment Beliefs	65 (6)
Donald M. Raymond	
Behavioral Finance	71 (8)
Jarrold W. Wilcox	
What Is Behavioral Finance?	79 (6)
Meir Statman	
The Psychology of Risk: The Behavioral Finance Perspective	85 (28)
Victor Ricciardi	
Investment Strategy for the Long Term	113(4)
William F. Sharpe	
Implementing Investment Strategies: The Art and Science of Investing	117(10)
Wayne H. Wagner	
Mark Edwards	
Investment Management for Taxable Investors	127(10)
David M. Stein	
James P. Garland	
Socially Responsible Investment	137(10)
Russell Sparkes	
Asset Allocation	
Employing Portfolio Selection Models in Practice	147(12)
Srichander Ramaswamy	
Asset Allocation and Portfolio Construction	159(6)
Noel Amenc	
Felix Goltz	
Lionel Martellini	
Veronique Le Sourd	
Asset Allocation Barbells	165(6)
Kuntara Pukthuanthong-Le	
Lee R. Thomas III	
The Fallacy of Portable Alpha	171(6)
Mark P. Kritzman	
Paul A. Samuelson	
Currency Overlay	177(10)
Bernd Scherer	
Portfolio Construction	
Risk Assessment and Portfolio Construction	187(8)
Jarrold W. Wilcox	
Risk Budgeting	195(26)
Alexandre Schutel Da Silva	
Wai Lee	
Bobby Pornrojngangkool	
Performance Analysis	
Introduction to Performance Analysis	221(8)
Noel Amenc	
Felix Goltz	
Lionel Martellini	
Veronique Le Sourd	
Evaluating Portfolio Performance: LPM-Based Risk Measures and the Mean-Equivalence Approach	229(8)
Banikanta Mishra	
Mahmud Rahman	
PART 2 Equity Portfolio Management	237(182)
Overview of Active Common Stock Portfolio Strategies	239(10)
Frank J. Fabozzi	
Sergio M. Focardi	
Petter N. Kolm	
Robert R. Johnson	
Investment Analysis: Profiting from a Complex Equity Market	249(10)
Bruce I. Jacobs	
Kenneth N. Levy	
Investment Management: An Architecture for the Equity Market	259(12)
Bruce I. Jacobs	
Kenneth N. Levy	
Portfolio Construction with Active Managers: An Integrated Approach	271(12)
Vineet Budhraj	
Rui J.P. de Figueiredo Jr	
Janghoon Kim	
Ryan Meredith	
Quantitative Modeling of Transaction and Trading Costs	283(6)
Petter N. Kolm	
Frank J. Fabozzi	
Sergio M. Focardi	
Quantitative Equity Portfolio Management	289(10)
Andrew Alford	
Robert Jones	
Terrence Lim	
Growth and Value Investing---Keeping in Style	299(8)
Eric H. Sorensen	
Frank J. Fabozzi	
Fundamental Multifactor Equity Risk Models	307(12)
Frank J. Fabozzi	
Raman Vardharaj	
Frank J. Jones	
Tracking Error and Common Stock Portfolio Management	319(6)

Raman Vardharaj	
Frank J. Fabozzi	
Frank J. Jones	
Long-Short Equity Portfolios	325(10)
Bruce I. Jacobs	
Kenneth N. Levy	
A Support Level for Technical Analysis	335(12)
Robert A. Schwartz	
Reto Francioni	
Bruce W. Weber	
Volatility and Structure: Building Blocks of Classical Chart Pattern Analysis	347(12)
Daniel L. Chesler	
Incorporating Trading Strategies in the Black-Litterman Framework	359(10)
Petter N. Kolm	
Sergio M. Focardi	
Frank J. Fabozzi	
The Blindness of Hindsight in Finance	369(4)
Peter L. Bernstein	
Are Stock Prices Predictable?	373(8)
Peter L. Bernstein	
Dynamic Factor Approaches to Equity Portfolio Management	381(12)
Dorsey D. Farr	
Statistical Arbitrage	393(6)
Brian J. Jacobsen	
The Use of Derivatives in Managing Equity Portfolios	399(14)
Roger G. Clarke	
Harindra De Silva	
Greg M. McMurran	
A Valuation Framework for Selecting Option Strategies	413(6)
Roger G. Clarke	
Harindra De Silva	
Greg M. Mcmurran	
PART 3 Fixed Income Portfolio Management	419(102)
Bond Portfolio Strategies for Outperforming a Benchmark	421(10)
Bulent Baygun	
Robert Tzucker	
Fixed Income Portfolio Investing: The Art of Decision Making	431(16)
Chris P. Dialynas	
Ellen Rachlin	
Analysis and evaluation of Corporate Bonds	447(8)
Christoph Klein	
Analyzing and Interpreting the Yield Curve	455(8)
Moorad Choudhry	
Creating an Optimal Portfolio to Fund Pension Liabilities	463(22)
Paul Ross	
Dan Bernstein	
Niall Ferguson	
Ray Dalio	
Convertible Bond Arbitrage	485(8)
Filippo Stefanini	
Maturity, Capital Structure, and Credit Risk: Important Relationships for Portfolio Managers	493(6)
Steven I. Dym	
A Unified Approach to Interest Rate Risk and Credit Risk of Cash and Derivative Instruments	499(8)
Steven I. Dym	
Swaps for the Modern Investment Manager	507(6)
Steven I. Dym	
Overview of ABS Portfolio Management	513(8)
Karen Weaver	
Eugene Xu	
PART 4 Alternative Investments	521(18)
Integrating Alternative Investments into the Asset Allocation Process	523(8)
Vineet Budhraj	
Rui J. P. de Figueiredo	
Janghoon Kim	
Ryan Meredith	
Some Considerations in the Use of Currencies	531(8)
Bruce Collins	
Ozgur Kan	
PART 5 Corporate Finance	539
Basics	
Introduction to Financial Management and Analysis	541(10)
Frank J. Fabozzi	
Pamela P. Drake	
Introduction to International Corporate Financial Management	551(12)
Frank J. Fabozzi	
Pamela P. Drake	
Corporate Strategy and Financial Planning	563(20)
Frank J. Fabozzi	
Pamela P. Drake	
Corporate Governance	583(8)
Mark J. P. Anson	
Frank J. Fabozzi	
Measuring the Performance of Corporate Managers	591(10)
Harold Bierman Jr.	
Capital Structure and Dividend Policy	
Capital Structure Decisions in Corporate Finance	601(16)
Frank J. Fabozzi	
Pamela P. Drake	
Capital Structure: Lessons from Modigliani and Miller	617(6)
Frank J. Fabozzi	
Pamela P. Drake	
Bondholder Value versus Shareholder Value	623(8)
Claus Huber	
Recapitalization of Troubled Companies	631(14)
Enrique R. Arzac	
Dividend and Dividend Policies	645(8)
Frank J. Fabozzi	
Pamela P. Drake	
Capital Budgeting	
The Investment Problem and Capital Budgeting	653(6)
Frank J. Fabozzi	
Pamela P. Drake	
Estimating Cash Flows of Capital Budgeting Projects	659(12)
Frank J. Fabozzi	
Pamela P. Drake	
Capital Budgeting Techniques	671(14)
Frank J. Fabozzi	
Pamela P. Drake	
Capital Budgeting and Risk	685(12)
Pamela P. Drake	
Frank J. Fabozzi	
Real Options	697(18)
John D. Finnerty	
Real Options and Modern Capital Investment Decisions	715(12)
William T. Moore	
Hurdle Rates for Overseas Projects	727(10)
Thomas J. O'Brien	
Structured Finance	
Structured Finance	737(8)
Frank J. Fabozzi	
Henry A. Davis	
Moorad Choudhry	
Introduction to Securitization	745(12)
Anand K. Bhattacharya	
Frank J. Fabozzi	
W. Alexader Roever	

Issuer Prospective in Structuring Asset-Backed Securities Transaction	757(8)
Frank J. Fabozzi	
Vinod Kothari	
Structuring Efficient Asset-Backed Transaction	765(14)
Len Blum	
Chris DiAngelo	
Funding through the Use of Trade Receivable Securitizations	779(10)
Adrian Katz	
Jeremy Blatt	
Operational Issues in Securitization	789(10)
Vinod Kothari	
Project Financing	799(16)
Henry A. Davis	
Frank J. Fabozzi	
The Fundamentals of Equipment Leasing	815(10)
Frank J. Fabozzi	
Leveraged Leasing	825(12)
Frank J. Fabozzi	
Lease versus Borrow-to-Buy Analysis	837(14)
Frank J. Fabozzi	
Working Capital Management	
Basic Treasury Management Concepts	851(10)
James Sagner	
Michele Allman-Ward	
Advanced Treasury Management Concepts	861(10)
James Sagner	
Michele Allman-Ward	
Management of Accounts Receivable	871(6)
Pamela P. Drake	
Frank J. Fabozzi	
Inventory Management	877(6)
Pamela P. Drake	
Frank J. Fabozzi	
Mergers and Acquisitions	
Acquisitions and Takeovers	883(20)
Aswath Damodaran	
Taking Control of a Company	903(12)
Pascal Quiry	
Maurizio Dallocchio	
Yann Le Fur	
Antonio Solvi	
Mergers and Demergers	915(10)
Pascal Quiry	
Maurizio Dallocchio	
Yann Le Fur	
Antonio Salvi	
Leveraged Buyouts	925
Pascal Quiry	
Maurizio Dallocchio	
Yann Le Fur	
Antonio Salvi	
Volume III	
PART 1 Risk Management	1 (232)
General Principles	
Risk and the French Connection	3 (8)
Peter L. Bernstein	
Risk: Traditional Finance versus Behavioral Finance	11 (28)
Victor Ricciardi	
Overview of Risk Management and Alternative Risk Transfer	39 (14)
Erik Banks	
Risk and Risk Management	53 (10)
Christopher L. Culp	
Risk Management for Asset Management Firms	63 (8)
Noel Amenc	
Jean-Rene Giraud	
Lionel Martellini	
Veronique Le Sourd	
Catastrophe and Risk	71 (10)
Erik Banks	
Overview of Enterprise Risk Management	81 (6)
James Lam	
Risk Models	
Model Risk	87 (6)
Kevin Dowd	
Back-Testing Market Risk Models	93 (8)
Kevin Dowd	
Risk Measures and Portfolio Selection	101(8)
Svetlozar T. Rachev	
Christian Menn	
Frank J. Fabozzi	
Statistical Models of Operational Loss	109(20)
Carol Alexander	
Risk Management in Freight Markets with forwards and Options Contracts	129(8)
Juby George	
Radu Tunaru	
Fixed Income Risk Managment	
Fixed Income Risk Modeling	137(16)
Ludovic Breger	
Oren Cheyette	
Effective Duration and Convexity	153(6)
Gerald W. Buetow Jr.	
Robert R. Johnson	
Duration Estimation for Bonds and Bond Portfolios	159(6)
Frank J. Fabozzi	
Yield Curve Risk Measures	165(10)
Frank J. Fabozzi	
Steven V. Mann	
Improving Guidelines for Interest Rate and Credit Derivatives	175(8)
Steven K. Kreider	
Scott F. Richard	
Frank J. Fabozzi	
Modeling Portfolio Credit Risk	183(10)
Srichander Ramaswamy	
The Basics of Cash-Market Hedging	193(14)
Shrikant Ramamurthy	
Hedging Fixed Income Securities with Interest Rate Swaps	207(8)
Shrikant Ramamurthy	
Yield Curve Risk Management	215(18)
Robert R. Reitano	
PART 2 Interest Rate Modeling	233(22)
The Concept and Measures of Interest Rate Volatility	235(8)
Alexander Levin	
Short-Rate Term Structure Models	243(12)
Alexander Levin	
PART 3 Credit Risk Modeling and Analysis	255(46)
Credit Risk	257(10)
Frank J. Fabozzi	
Credit Risk Modeling Using Structural Models	267(10)
Mark J.P. Anson	
Frank J. Fabozzi	
Ren-Raw Chen	
Moorad Choudhry	
Credit Risk Modeling Using Reduced-Form Models	277(10)
Mark J.P. Anson	
Frank J. Fabozzi	
Ren-Raw Chen	

Moorad Choudhry	287(14)
The Credit Analysis of Municipal Bonds	
Sylvan G. Feldstein	
Frank Fabozzi	
PART 4 Valuation	301(266)
Equity Valuation	
Introduction to Valuation	303(6)
Aswath Damodaran	
Applied Equity Valuation: Discounted Cash Flow Method	309(12)
Glen A. Larsen Jr.	
Applied Equity Valuation: Relative Valuation Method	321(8)
Glen A. Larsen Jr.	
Dividend Discount Models	329(10)
Pamela P. Drake	
Frank J. Fabozzi	
Equity Analysis Using Traditional and Value-Based Metrics	339(20)
Frank J. Fabozzi	
James L. Grant	
The Franchise Factor Approach to Firm Valuation	359(16)
Martin L. Leibowitz	
Stanley Kogelman	
IPO Valuation	375(8)
Kuntara Pukthuanthong-Le	
The Valuation of Private Firms	383(16)
Stanley Jay Feldman	
Valuing Fixed Income Securities	
General Principles of Bond Valuation	399(12)
Frank J. Fabozzi	
Steven V. Mann	
Yield Curves and Valuation Lattices	411(6)
Frank J. Fabozzi	
Andrew Kalotay	
Michael Dorigan	
Using the Lattice Model to Value Bonds with Embedded Options, Floaters, Options, and Caps/Floors	417(12)
Frank J. Fabozzi	
Andrew Kalotay	
Michael Dorigan	
Valuing Mortgage-Backed and Asset-Backed Securities	429(10)
Frank J. Fabozzi	
A Framework for Valuing Treasury Inflation-Protected Securities	439(6)
Priya Misra	
Kodjo Apedjinou	
Anshul Pradhan	
Quantitative Models to Value Convertible Bonds	445(6)
Filippo Stefanini	
Derivatives Valuation	
Introduction to the Pricing of Futures/Forwards and Options	451(8)
Frank J. Fabozzi	
Black-Scholes Option Pricing Model	459(8)
Svetlozar T. Rachev	
Christian Menn	
Frank J. Fabozzi	
Valuing a Plain Vanilla Swap	467(10)
Gerald W. Buetow	
Frank J. Fabozzi	
Valuing Swaptions	477(18)
Frank J. Fabozzi	
Gerald W. Buetow	
Pricing Options on Interest Rate Instruments	495(12)
Radu Tunaru	
Brian Eales	
Credit Default Swaps Valuation	507(12)
Ren-Raw Chen	
Frank J. Fabozzi	
Dominic O'Kane	
The Valuation of Fixed Income Total Return Swaps	519(4)
Ren-Raw Chen	
Frank J. Fabozzi	
Valuing Inflation Derivatives	523(12)
Jeroen Kerkhof	
Valuing Commodity	
Foreign Exchange	
Real Estate Products	
The Pricing and Economics of Commodity Futures	535(10)
Mark J. P. Anson	
Introduction to Currency Option Pricing Models	545(12)
Shani Shamah	
Pricing Commercial Real Estate Derivatives	557(10)
David Geltner	
Jeffrey D. Fisher	
PART 5 Mathematical Tools and Techniques for Financial Modeling and Analysis	567(226)
Basic Tools and	
Analysis	
Cash-Flow Analysis	569(12)
Pamela P. Drake	
Frank J. Fabozzi	
Financial Ratio Analysis	581(16)
Pamela P. Drake	
Frank J. Fabozzi	
Mathematics of Finance	597(20)
Pamela P. Drake	
Frank J. Fabozzi	
Calculating Investment Returns	617(16)
Bruce J. Feibel	
Statistical Tools	
Basic Data Description for Financial Modeling and Analysis	633(12)
Markus Hoechstotter	
Svetlozar T. Rachev	
Frank J. Fabozzi	
Elementary Statistics	645(24)
Robert Whaley	
Regression Analysis	669(20)
Svetlozar T. Rachev	
Stefan Mitnik	
Frank J. Fabozzi	
Sergio Focardi	
Teo Jasic	
ARCH/GARCH Models in Applied Financial Econometrics	689(12)
Robert F. Engle	
Sergio M. Focardi	
Frank J. Fabozzi	
Cointegration and Its Application in Finance	701(10)
Bala Arshanapalli	
William Nelson	
Moving Average Models for Volatility and Correlation, and Covariance Matrices	711(14)
Carol Alexander	
Introduction to Stochastic Processes	725(14)
Svetlozar T. Rachev	
Christian Menn	
Frank J. Fabozzi	
Bayesian Probability for Investors	739(12)
Jarrold W. Wilcox	
Optimization and Simulation Tools	
Monte Carlo Simulation in Finance	751(12)
Dessislava A. Pachamanova	
Principles of Optimization for Portfolio Selection	763(12)

	Stoyan V. Stoyanov Svetlozar T. Rachev Frank J. Fabozzi	
	Introduction to Stochastic Programming and Its Applications to Finance	775 (10)
	Koray D. Simsek	
	Robust Portfolio Optimization	785 (8)
	Dessislava A. Pachamanova Petter N. Kolm Frank J. Fabozzi Sergio M. Focardi	
Index		931

Excerpt

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Chapter One

Portfolio Selection

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Some Basic Concepts 4 Utility Function and Indifference Curves 4 The Set of Efficient Portfolios and the Optimal Portfolio 4 Risky Assets versus Risk-Free Assets 4 **Measuring a Portfolio's Expected Return** 5 Measuring Single-Period Portfolio Return 5 The Expected Return of a Portfolio of Risky Assets 5 **Measuring Portfolio Risk** 6 Variance and Standard Deviation as a Measure of Risk 6 Measuring the Risk of a Portfolio Comprised of More than Two Assets 8 **Portfolio Diversification** 8 Portfolio Risk and Correlation 9 The Effect of the Correlation of Asset Returns on Portfolio Risk 9 **Choosing a Portfolio of Risky Assets** 9 Constructing Efficient Portfolios 10 Feasible and Efficient Portfolios 10 Choosing the Optimal Portfolio in the Efficient Set 11 **Index Model's Approximations to the Covariance Structure** 12 Single-Index Market Model 12 Multi-Index Market Models 13 **Summary** 13 **References** 13

Abstract: The goal of portfolio selection is the construction of portfolios that maximize expected returns consistent with individually acceptable levels of risk. Using both historical data and investor expectations of future returns, portfolio selection uses modeling techniques to quantify "expected portfolio returns" and "acceptable levels of portfolio risk," and provides methods to select an optimal portfolio. It would not be an overstatement to say that modern portfolio theory has revolutionized the world of investment management. Allowing managers to quantify the investment risk and expected return of a portfolio has provided the scientific and objective complement to the subjective art of investment management. More importantly, whereas at one time the focus of portfolio management used to be the risk of individual assets, the theory of portfolio selection has shifted the focus to the risk of the entire portfolio. This theory shows that it is possible to combine risky assets and produce a portfolio whose expected return reflects its components, but with considerably lower risk. In other words, it is possible to construct a portfolio whose risk is smaller than the sum of all its individual parts.

Keywords: portfolio selection, modern portfolio theory, mean-variance analysis, utility function, efficient portfolio, optimal portfolio, covariance, correlation, portfolio diversification, beta, portfolio variance, feasible portfolio

In this chapter, we present the theory of portfolio selection as formulated by Markowitz (1952). This theory is also referred to as mean-variance portfolio analysis or simply *mean-variance analysis*.

SOME BASIC CONCEPTS

Portfolio theory draws on concepts from two fields: financial economic theory and probability and statistical theory. This section presents the concepts from financial economic theory used in portfolio theory. While many of the concepts presented here have a more technical or rigorous definition, the purpose is to keep the explanations simple and intuitive so the reader can appreciate the importance and contribution of these concepts to the development of modern portfolio theory.

Utility Function and Indifference Curves

In life there are many situations where entities (that is, individuals and firms) face two or more choices. The economic "theory of choice" uses the concept of a utility function developed by von Neuman and Morgenstern (1944), to describe the way entities make decisions when faced with a set of choices. A *utility function* assigns a (numeric) value to all possible choices faced by the entity. The higher the value of a particular choice, the greater the utility derived from that choice. The choice that is selected is the one that results in the maximum utility given a set of (budget) constraints faced by the entity.

In portfolio theory too, entities are faced with a set of choices. Different portfolios have different levels of expected return and risk. Also, the higher the level of expected return, the larger the risk. Entities are faced with the decision of choosing a portfolio from the set of all possible risk/return combinations: where return is a desirable which increases the level of utility, and risk is an undesirable which decreases the level of utility. Therefore, entities obtain different levels of utility from different risk/return combinations. The utility obtained from any possible risk/return combination is expressed by the utility function. Put simply, the utility function expresses the preferences of entities over perceived risk and expected return combinations.

A utility function can be expressed in graphical form by a set of indifference curves. Figure 1.1 shows indifference curves labeled $[u.sub.1]$, $[u.sub.2]$, and $[u.sub.3]$. By convention, the horizontal axis measures risk and the vertical axis measures expected return. Each curve represents a set of portfolios with different combinations of risk and return. All the points on a given indifference curve indicate combinations of risk and expected return that will give the same level of utility to a given investor. For example, on utility curve $[u.sub.1]$, there are two points u and u' , with u having a higher expected return than u' , but also having a higher risk. Because the two points lie on the same indifference curve, the investor has an equal preference for (or is indifferent to) the two points, or, for that matter, any point on the curve. The (positive) slope of an indifference curve reflects the fact that, to obtain the same level of utility, the investor requires a higher expected return in order to accept higher risk.

For the three indifference curves shown in Figure 1.1, the utility the investor receives is greater the further the indifference curve is from the horizontal axis, because that curve represents a higher level of return at every level of risk. Thus, for the three indifference curves shown in the exhibit, $[u.sub.3]$ has the highest utility and $[u.sub.1]$ the lowest.

The Set of Efficient Portfolios and the Optimal Portfolio

Portfolios that provide the largest possible expected return for given levels of risk are called *efficient portfolios*. To construct an efficient portfolio, it is necessary to make some assumption about how investors behave when making investment decisions. One reasonable assumption is that investors are risk averse. A risk-averse investor is an investor who, when faced with choosing between two investments with the same expected return but two different risks, prefers the one with the lower risk.

In selecting portfolios, an investor seeks to maximize the expected portfolio return given his tolerance for risk. Alternatively stated, an investor seeks to minimize the risk that he is exposed to given some target expected return. Given a choice from the set of efficient portfolios, an *optimal portfolio* is the one that is most preferred by the investor.

Risky Assets versus Risk-Free Assets

A risky asset is one for which the return that will be realized in the future is uncertain. For example, an investor who purchases the stock of Pfizer Corporation today with the intention of holding it for some finite time does not know what return will be realized at the end of the holding period. The return will depend on the price of Pfizer's stock at the time of sale and on the dividends that the company pays during the holding period. Thus, Pfizer stock, and indeed the stock of all companies, is a risky asset.

Securities issued by the U.S. government are also risky. For example, an investor who purchases a U.S. government bond that matures in 30 years does not know the return that will be realized if this bond is held for only one year. This is because changes in interest rates in that year will affect the price of the bond one year from now and that will impact the return on the bond over that year.

There are assets, however, for which the return that will be realized in the future is known with certainty today. Such assets are referred to as risk-free or riskless assets. The risk-free asset is commonly defined as a short-term obligation of the U.S. government. For example, if an investor buys a U.S. government security that matures in one year and plans to hold that security for one year, then there is no uncertainty about the return that will be realized. (Note: Here "return" refers to the nominal return. The "real" return, which adjusts for inflation, is uncertain.) The investor knows that in one year, the maturity date of the security, the government will pay a specific amount to retire the debt. Notice how this situation differs for the U.S. government security that matures in 30 years. While the 1-year and the 30-year securities are obligations of the U.S. government, the former matures in one year so that there is no uncertainty about the return that will be realized. In contrast, while the investor knows what the government will pay at the end of 30 years for the 30-year bond, he does not know what the price of the bond will be one year from now.

MEASURING A PORTFOLIO'S EXPECTED RETURN

We are now ready to define the actual and expected return of a risky asset and a portfolio of risky assets.

Measuring Single-Period Portfolio Return

The actual return on a portfolio of assets over some specific time period is straightforward to calculate using the following:

[R.sub.p] = [w.sub.1] [R.sub.1] + [w.sub.2] [R.sub.2] + ... + [w.sub.G] [R.sub.G] (1.1)

where

[R.sub.p] = rate of return on the portfolio over the period

[R.sub.g] = rate of return on asset g over the period

[w.sub.g] = weight of asset g in the portfolio (that is, market value of asset g as a proportion of the market value of the total portfolio) at the beginning of the period

G = number of assets in the portfolio

In shorthand notation, equation (1.1) can be expressed as follows:

[R.sub.p] = [G.summation over (g=1)] [w.sub.g] [R.sub.g] (1.2)

Equation (1.2) states that the return on a portfolio ([R.sub.p]) of G assets is equal to the sum over all individual assets' weights in the portfolio times their respective return. The portfolio return [R.sub.p] is sometimes called the holding period return or the ex post return.

For example, consider the following portfolio consisting of three assets:

Market Value at the Beginning of Rate of Return Over Asset Holding Period Holding Period

1 \$6 million 12% 2 8 million 10% 3 11 million 5%

The portfolio's total market value at the beginning of the holding period is \$25 million. Therefore,

[w.sub.1] = \$6 million/\$25 million = 0.24, or 24% and [R.sub.1] = 12%

[w.sub.2] = \$8 million/\$25 million = 0.32, or 32% and [R.sub.2] = 10%

[w.sub.3] = \$11 million/\$25 million = 0.44, or 44% and [R.sub.3] = 5%

Notice that the sum of the weights is equal to 1. Substituting into equation (1.1), we get the holding period portfolio return,

[R.sub.p] = 0.24(12%) + 0.32(10%) + 0.44(5%) = 8.28%

Note that since the holding period portfolio return is 8.28%, the growth in the portfolio's value over the holding period is given by (\$25 million) × 0.0828 = \$2.07 million.

The Expected Return of a Portfolio of Risky Assets

Equation (1.1) shows how to calculate the actual return of a portfolio over some specific time period. In portfolio management, the investor also wants to know the expected (or anticipated) return from a portfolio of risky assets. The expected portfolio return is the weighted average of the expected return of each asset in the portfolio. The weight assigned to the expected return of each asset is the percentage of the market value of the asset to the total market value of the portfolio. That is,

E([R.sub.p]) = [w.sub.1] E([R.sub.1]) + [w.sub.2] E([R.sub.2]) + ... + [w.sub.G]E([R.sub.G]) (1.3)

The E() signifies expectations, and E([R.sub.P]) is sometimes called the ex ante return, or the expected portfolio return over some specific time period.

The expected return, E([R.sub.i]), on a risky asset i is calculated as follows. First, a probability distribution for the possible rates of return that can be realized must be specified. A probability distribution is a function that assigns a probability of occurrence to all possible outcomes for a random variable. Given the probability distribution, the expected value of a random variable is simply the weighted average of the possible outcomes, where the weight is the probability associated with the possible outcome.

In our case, the random variable is the uncertain return of asset i. Having specified a probability distribution for the possible rates of return, the expected value of the rate of return for asset i is the weighted average of the possible outcomes. Finally, rather than use the term "expected value of the return of an asset," we simply use the term "expected return." Mathematically, the expected return of asset i is expressed as:

E([R.sub.i]) = [p.sub.1] [R.sub.1] + [p.sub.2] [R.sub.2] + ... + [p.sub.N] [R.sub.N] (1.4)

where,

[R.sub.n] = the nth possible rate of return for asset i

[p.sub.n] = the probability of attaining the rate of return n for asset i

N = the number of possible outcomes for the rate of return

How do we specify the probability distribution of returns for an asset? We shall see later on in this chapter that in most cases the probability distribution of returns is based on historical returns. Probabilities assigned to different return outcomes that are based on the past performance of an uncertain investment act as a good estimate of the probability distribution. However, for purpose of illustration, assume that an investor is considering an investment, stock XYZ, which has a probability distribution for the rate of return for some time period as given in Table 1.1. The stock has five possible rates of return and the probability

distribution specifies the likelihood of occurrence (in a probabilistic sense) for each of the possible outcomes.

Substituting into equation (1.4) we get

$E([R.sub.XYZ]) = 0.18(12\%) + 0.24(10\%) + 0.29(8\%) + 0.16(4\%) + 0.13(-4\%) = 7\%$

Thus, 7% is the expected return or mean of the probability distribution for the rate of return on stock XYZ.

(Continues...)

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