

Contents

Preface	xv
Acknowledgements	xvii
About the Author	xix
About the Book	xxi
CHAPTER 1	
Asset Allocation	1
Ingredients of Asset Allocation	3
Lessons of the Recent Downturn	6
So Are Bonds the Place to Invest?	10
So What Happens When the Economy Turns Up?	13
Some Necessary Tools for Analysis	15
Appendix: Description of the Statistical Tools	16
CHAPTER 2	
Long-run Returns on Stocks and Bonds	21
Stocks and Bonds Since 1951	22
How Much More Attractive Are Stocks than Bonds?	24
Real Returns	25
Reconsidering Bond Returns	27
Reconsidering Stock Returns	30
Alternative Estimates of Long-Run Stock Returns	32
Upper and Lower Bounds for Equity Returns	35
Appendix: Alternative Estimates of Stock Returns	36
CHAPTER 3	
Small-Cap Stocks	41
What Do We Mean by Small-Cap Stocks?	43
Relative Performance of Large-Cap and Small-Cap Stocks—Russell Series	45

Relative Performance of Large-Cap and Small-Cap Stocks—SBBI Series	48
Relative Performance of Large-Cap and Small-Cap Stocks—Broader Analysis	50
Large-Cap and Small-Cap Stocks in a Portfolio Context	52
Summary—Key Features of Small-Cap Stocks	55
CHAPTER 4	
Value and Growth Investing	57
Description of the Russell 1000 Indexes	57
Relative Performance of Growth and Value Indexes	59
Value and Growth Indexes for Earlier Periods	64
Relative Performance of Small-Cap Growth and Value Stocks	65
Portfolios with Growth and Value	69
Summary—Key Features of Growth and Value Stocks	71
CHAPTER 5	
Foreign Stocks	73
Returns on Foreign and U.S. Stocks	75
Currency Capital Gains and Foreign Stock Returns	79
Diversification Benefits of Foreign Stock Investing	85
Are There Shortcuts to Owning Foreign Stocks?	90
Summary—Key Features of Foreign Stocks	93
CHAPTER 6	
Emerging Markets	97
What Is An Emerging Market?	98
Emerging Stock Market Indexes	101
Emerging Stock Market Returns	103
Risks of Investing in Emerging Stock Markets	107
Emerging Market Bonds—A Brief History	113
Returns on Emerging Market Bonds	114
Summary—Key Features of Emerging Market Stocks and Bonds	117
CHAPTER 7	
Bonds	121
Treasury Bonds	122
The Wider U.S. Bond Market	127
Returns on U.S. Bonds	131
Bond Markets Outside the United States	133
Summary—Key Features of Bonds	140

CHAPTER 8	
Strategic Asset Allocation	143
Expanding the Portfolio to Include Other Bonds and Stocks	145
Expanding the Portfolio to Include Foreign Stocks	147
The Dirty Secret of Optimization	150
Alternative Approaches to Optimization	154
Estimating Portfolio Returns—the Premium Method	155
Portfolios in Practice—Example of MarketWatch.com’s Lazy Portfolios	159
Beyond the Traditional Efficient Frontier	163
CHAPTER 9	
Hedge Funds	167
Investment Strategies	169
Hedge Fund Returns	172
Hedge Fund Biases	178
Performance Across Managers	181
Fund of Funds	182
Hedge Funds in a Portfolio	186
Summary—Key Features of Hedge Funds	187
CHAPTER 10	
Venture Capital and Private Equity	191
Common Features of Venture Capital and Buyout Funds	192
Venture Capital	195
Returns on Venture Capital	198
Buyout Funds	205
Returns on Buyout Funds	207
Key Features of Private Equity	211
CHAPTER 11	
Real Assets—Real Estate	213
Real Estate Investment Trusts	214
Direct Ownership of Real Estate	220
Home Ownership	223
Concluding Remarks	231
CHAPTER 12	
Real Assets—Commodities	235
Sources of Return on Commodity Futures	236
Returns on Commodity Futures	239

Performance in a Portfolio	245
Does Gold Belong in the Portfolio?	249
Active Investment in Commodities—Managed Futures	251
Summary—Key Features of Commodity Investments	253
CHAPTER 13	
Asset Allocation with Alternative Investments	257
Diversifying into Real Estate—Alternatives for Ordinary Investors	258
Expanding the Menu of Alternative Assets	262
High Net Worth (HNW) Portfolios	264
Ultra HNW Portfolios	266
Lessons about Alternatives from the Yale Endowment	269
Lessons about Alternative Investments Learned in the Financial Crisis	277
Verdict on Alternative Investments	280
CHAPTER 14	
Investing and Spending by Foundations	285
Spending Rules	286
Estimating Future Bond and Stock Returns	288
Volatility and Uncertainty	288
Portfolios of Stocks and Bonds	290
Description of the Spending Plan	291
Using Historical Returns Since 1951 to Set Spending Rules	292
Effect of Lower Stock Returns on Spending Rules	294
Effects of Different Stock/Bond Allocations	296
Concluding Comments	299
CHAPTER 15	
Investing and Spending in Retirement	303
Longevity	306
Spending Rules for Retirement	308
Portfolios of Stocks and Bonds	309
Baseline Case: Can Two Live More Cheaply Than One?	310
Effects of Bequests and Variable Spending Rules	311
How Can I Turn a Defined Contribution Plan into a Defined Benefit Plan?	313
Concluding Comments—Postpone Retirement?	314

CHAPTER 16	
The Discipline of Asset Allocation—Rebalancing	319
Rebalancing Defined	320
Rebalancing When Times Are Good	321
Rebalancing When Times Are Bad	323
References	325
Index	329