Contents

Foreword By Martin Leibowitz	İX
Preface By Sandy Rattray	Xii
Acknowledgments	xvi
CHAPTER 1	
Seeking Crisis Alpha	1
Introduction	1
Data	4
Strategy Performance	10
Skewness	14
Crisis Alpha	17
Concluding Remarks	20
Appendix 1A: Sensitivity Analyses for Equity and Bond	20
Crisis Alpha and Smiles	22
References	25
CHAPTER 2	
Can Portfolios Be Crisis Proofed?	27
Introduction	27
Crisis Performance of Passive Investments	29
Active Hedging Strategies: Time-Series Momentum	41
Active Hedging Strategies: Quality Stocks	46
Can Portfolios Be Crisis Proofed?	57
Concluding Remarks	61
Appendix 2A: Long Puts Using OTC Put Option Data	
from a Broker	63

VI CONTENTS

Appendix 2B: Longer View of Gold	65
Appendix 2C: Additional Results for Quality Stocks References	66 70
CHAPTER 3	74
Risk Management via Volatility Targeting	71
Introduction	71
Our Approach	73 77
U.S. Equities U.S. Bonds and Credit	84
Futures and Forwards	84 91
Portfolios	93
Volatility Scaling and the Sharpe Ratio of Risk Assets	93 97
Concluding Remarks	100
Appendix 3A: Other Risk Metrics	100
Appendix 3B: Autocorrelation of Variance	102
References	107
CHAPTER 4	
Strategic Rebalancing	109
Introduction	109
Comparing Rebalanced and Buy-and-Hold Portfolio Returns	112
Impact of a Simple Trend Strategy Allocation	115
Strategic Rebalancing	125
Strategic Rebalancing versus a Direct Allocation to Trend	129
Concluding Remarks	131
Appendix 4A: Certainty Equivalent Performance Gain Appendix 4B: Adding Trend to a 100 Percent	132
Rebalanced Portfolio	134
Appendix 4C: The 30–70 Portfolio	138
References	138
CHAPTER 5	
Drawdown Control	140
Introduction	140
Drawdown Greeks	142
Manager Replacement Rules	148
Drawdown-Based Risk Reduction Rules	155
Concluding Remarks	156
Appendix 5A: Heteroskedasticity for U.S. Stocks	158
References	162

Contents vii

CHAPTER 6	10/
Man versus Machine	164
Introduction	164
Classification of Hedge Funds	167
Risk Factors	169
Empirical Analysis: Macro Funds	172
Empirical Analysis: Equity Funds	178
Diversification Potential of Different Hedge Fund Styles	183
Concluding Remarks	186
Appendix 6A: Fund Classification Method	187
Appendix 6B: The Recent Rise of Liquid Alternative	
CTA Mutual Funds	190
References	193
CHAPTER 7 Out-of-Sample Evidence from the COVID-19 Equity Selloff Introduction The Best Strategies During the COVID-19 Equity Selloff Volatility Targeting Strategic Rebalancing Concluding Remarks	195 196 207 209
Notes	211
About the Authors	223
Index	225

