Contents

Preface	Xi
Introduction	1
PART ONE	
Introduction to Behavioral Finance	
CHAPTER 1	
What Is the Efficient Market Hypothesis?	5
Information and the Efficient Market Hypothesis	6
Random Walk, the Martingale Hypothesis, and the EMH	8
False Evidence against the EMH	11
What Does It Mean to Disagree with the EMH?	13
CHAPTER 2	
The EMH and the "Market Model"	15
Risk and Return—the Simplest View	15
The Capital Asset Pricing Model (CAPM)	18
So What Is the Market Model?	23
CHAPTER 3	
The Forerunners to Behavioral Finance	25
The Folklore of Wall Street Traders	26
The Birth of Value Investing: Graham and Dodd	28
Financial News in a World of Ubiquitous	
Television and Internet	29
PART TWO	or design as the property
Noise Traders	
CHAPTER 4	
Noise Traders and the Law of One Price	33
The Law of One Price and the Case of Fungibility	33
Noise	38

VÍ

CHAPTER 5	
The Shleifer Model of Noise Trading	43
The Key Components of the Shleifer Model	44
Results	49
Why the Shleifer Model Is Important	50
Resolving the Limits to Arbitrage Dispute	51
CHAPTER 6	
Noise Trading Feedback Models	53
The Hirshleifer Model	5.3
The Subrahmanyam-Titman Model	58
Conclusion	62
CHAPTER 7	
Noise Traders as Technical Traders	65
Technical Traders as Noise Traders	67
Herd Instinct Models	72
Conclusion	76
PART III	
Anomalies	
CHAPTER 8	
The Rational Man	81
Consumer Choice with Certainty	81
Consumer Choice with Uncertainty	84
The Allais Paradox	90
Conclusion	92
CHAPTER 9	
Prospect Theory	93
The Reference Point	93
The S-Curve	94
Loss Aversion	96
Prospect Theory in Practice	98
Drawbacks of Prospect Theory	98
Conclusion	100

CHAPTER 10	
Perception Biases	101
Saliency	101
Framing	103
Anchoring	106
Sunk Cost Bias	108
Conclusion	109
CHAPTER 11	
Inertial Effects	111
Endowment Effect	111
Status Quo Effect	116
Disposition Effect	119
Conclusion	120
CHAPTER 12	100
Causality and Statistics	123
Representativeness	123
Conjunction Fallacy	127
Reading into Randomness	129
Small Sample Bias	131
Probability Neglect	133
Conclusion	134
CHAPTER 13	105
Musions	135
Illusion of Talent	135
Illusion of Skill	138
Illusion of Superiority	139
Illusion of Validity	141
Conclusion	142
PART IV	
Serial Correlation	
CHAPTER 14	
Predictability of Stock Prices: Fama-French Leads the Way	147
Testing the Capital Asset Pricing Model	147
A Plug for Value Investing	149
Mean Reversion—The DeBondt-Thaler Research	151
Why Fama-French Is a Milestone for Behavioral Finance	152

Fama-French and Mean Reversion: Which is it? The Month of January Is5 Is This Just About Price? The Overreaction Theme Lakonishok, Shleifer, and Vishny on Value versus Growth Is Overreaction Nothing More Than a "Small Stock" Effect? Daniel and Titman on Unpriced Risk in Fama and French Summing Up the Contrarian Debate CHAPTER 18 Short Term Momentum Price and Earnings Momentum Farnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 187 Mehra and Prescott What About Loss Aversion?	CHAPTER 15	
The Month of January Is This Just About Price? The Overreaction Theme Lakonishok, Shleifer, and Vishny on Value versus Growth Is Overreaction Nothing More Than a "Small Stock" Effect? Daniel and Titman on Unpriced Risk in Fama and French Summing Up the Contrarian Debate CHAPTER 16 Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 157 157 157 157 157 157 157 158 158 158 159 159 159 159 159 159 159 159 159 159		155
Is This Just About Price? The Overreaction Theme Lakonishok, Shleifer, and Vishny on Value versus Growth Is Overreaction Nothing More Than a "Small Stock" Effect? Daniel and Titman on Unpriced Risk in Fama and French Summing Up the Contrarian Debate CHAPTER 16 Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 158 158 157 158 158 158 159 159 159 159 159 159 159 159 159 159		155 157
The Overreaction Theme Lakonishok, Shleifer, and Vishny on Value versus Growth Is Overreaction Nothing More Than a "Small Stock" Effect? Daniel and Titman on Unpriced Risk in Fama and French Summing Up the Contrarian Debate CHAPTER 16 Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects January Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 158 159 159 159 159 159 159 159		
Value versus Growth Is Overreaction Nothing More Than a "Small Stock" Effect? Daniel and Titman on Unpriced Risk in Fama and French Summing Up the Contrarian Debate CHAPTER 16 Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects January Effects The Other January Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 158 Mena and French 169 Mera and French 169 Mena and French 169 Mena and Prescott What About Loss Aversion?		
Value versus Growth Is Overreaction Nothing More Than a "Small Stock" Effect? Daniel and Titman on Unpriced Risk in Fama and French Summing Up the Contrarian Debate CHAPTER 16 Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects January Effects The Other January Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 158 Mena and French 169 Mera and French 169 Mena and French 169 Mena and Prescott What About Loss Aversion?	Lakonishok, Shleifer, and Vishny on	
Daniel and Titman on Unpriced Risk in Fama and French Summing Up the Contrarian Debate CHAPTER 16 Short Term Momentum Price and Earnings Momentum Farnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 164 165 165 176 167 178 179 167 167 168 179 170 170 170 170 171 171 172 174 175 176 177 178 179 179 179 179 179 179 179 179 179 179		158
CHAPTER 16 Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 167 167 167 167 167 167 167 167 167 16	Is Overreaction Nothing More Than a "Small Stock" Effect?	159
CHAPTER 18 Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises 170 Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect 180 The Weekend Effect Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 167 168 179 170 170 170 170 170 171 171 172 173 174 175 176 177 177 178 179 179 179 179 170 179 179 179 179 179 179 179 179 179 179		164
Short Term Momentum Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises 170 Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies 174 Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects 177 January Effects 178 The Other January Effect 180 The Weekend Effect 181 Preholiday Effects 3182 Sullivan, Timmermann, and White 183 Conclusion 184 PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 190	Summing Up the Contrarian Debate	165
Price and Earnings Momentum Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects January Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Sullivan, Timmermann, and White Tonclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 168 Mementum—Ball and Brown 168 Mementum—Is 170 173 174 175 176 177 178 177 187 187 187 187 187 187 187	CHAPTER 16	
Earnings Momentum—Ball and Brown Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects January Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 170 Mementum Is Momentum	Short Term Momentum	167
Measuring Earnings Surprises Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects January Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 173 174 175 176 177 177 178 179 179 170 170 170 170 170 170 177 178 179 170 170 170 170 170 170 170 170 170 170	Price and Earnings Momentum	168 170 173
Why Does It Matter Whether Momentum Is Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 173 174 175 176 177 178 178 179 179 179 179 179 179 179 179 170 179 179 179 179 179 179 179 179 179 179	Earnings Momentum—Ball and Brown	
Price or Earnings Based? Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 173 174 175 176 177 177 178 178 178 179 179 179 179 179 179 179 179 179 179	Why Does It Matter Whether Momentum Is Price or Earnings Based?	
Hedge Funds and Momentum Strategies Pricing and Earnings Momentum—Are They Real and Do They Matter? CHAPTER 17 Calendar Effects January Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion Conclusion CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 174 174 175 176 177 178 178 178 189 180 180 181 181 182 183 184 184		
Pricing and Earnings Momentum—Are They Real and Do They Matter? 174 CHAPTER 17 Calendar Effects 178 The Other January Effect 180 The Weekend Effect 181 Preholiday Effects 182 Sullivan, Timmermann, and White 183 Conclusion 184 PART V Other Topics CHAPTER 18 The Equity Premium Puzzle 187 Mehra and Prescott 187 What About Loss Aversion? 190		
CHAPTER 17 Calendar Effects 178 January Effects 180 The Other January Effect 181 Preholiday Effects 182 Sullivan, Timmermann, and White 183 Conclusion 184 PART V Other Topics CHAPTER 18 The Equity Premium Puzzle 187 What About Loss Aversion? 190		
CHAPTER 17 Calendar Effects 178 January Effects 180 The Other January Effect 181 Preholiday Effects 181 Preholiday Effects 182 Sullivan, Timmermann, and White 183 Conclusion 184 PART V Other Topics CHAPTER 18 The Equity Premium Puzzle 187 Mehra and Prescott 187 What About Loss Aversion? 190		
Calendar Effects 177 January Effects 178 The Other January Effect 180 The Weekend Effect 181 Preholiday Effects 182 Sullivan, Timmermann, and White 183 Conclusion 184 PART V Other Topics CHAPTER 18 The Equity Premium Puzzle 187 Mehra and Prescott 187 What About Loss Aversion? 190	Do They Matter?	174
January Effects The Other January Effect The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 178 180 181 181 182 183 184 PART V Other Topics 187 187 187 189	HAPTER 17	C024E-0-00
The Other January Effect 180 The Weekend Effect 181 Preholiday Effects 182 Sullivan, Timmermann, and White 183 Conclusion 184 PART V Other Topics CHAPTER 18 The Equity Premium Puzzle 187 Mehra and Prescott 187 What About Loss Aversion? 190	Calendar Effects	177
The Weekend Effect Preholiday Effects Sullivan, Timmermann, and White Conclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 181 182 183 184 PART V 187 187		178
Preholiday Effects Sullivan, Timmermann, and White Conclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 182 183 184 185 186 187 187 187		180
Sullivan, Timmermann, and White Conclusion PART V Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 183 184		
Conclusion 184 PART V Other Topics CHAPTER 18 The Equity Premium Puzzle 187 Mehra and Prescott 187 What About Loss Aversion? 190		
PART V Other Topics CHAPTER 18 The Equity Premium Puzzle 187 Mehra and Prescott 187 What About Loss Aversion? 190		
Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 187 190	Conclusion	184
Other Topics CHAPTER 18 The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 187 190	PART V	
The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 187 190		n-Ein-contracts
The Equity Premium Puzzle Mehra and Prescott What About Loss Aversion? 187 190	CHAPTER 18	
Mehra and Prescott What About Loss Aversion? 187 190		187
What About Loss Aversion?		
Could This Be Survivor Bias?	What About Loss Aversion?	
Could This be out fivor blas.	Could This Be Survivor Bias?	191
Other Explanations 192	Other Explanations	192

Contents

Are Equities Always the Best Portfolio for the Long Run?	193
Is the Equity Premium Resolved?	194
CHAPTER 19	
Liquidity	195
A Securities Market Is a Bid-Ask Market	196
Measuring Liquidity	197
Is Liquidity a Priced Risk for Common Stocks?	199
Significance of Liquidity Research	200
CHAPTER 20	
Neuroeconomics	201
Capuchin Monkeys	201
Innateness Versus Culture	203
Decisions Are Made by the Brain	203
Decisions versus Outcomes	205
Neuroeconomic Modeling	206
More Complicated Models of Brain Activity	208
The Kagan Critique	208
Conclusion	209
CHAPTER 21	
Experimental Economics	211
Bubble Experiments	212
Endowment Effect and Status Quo Bias	215
Calendar Effects	216
Conclusion	216
CONCLUSION	
And the Winner is?	217
The Semi-Strong Hypothesis—Prices Accurately Summarize	
All Known Public Information	217
Can Prices Change if Information Doesn't Change?	219
Is the Law of One Price Valid?	220
Three Research Agendas	221
The Critics Hold the High Ground	223
What Have We Learned?	223
Where Do We Go From Here? (What Have We Not Learned?)	227
A Final Thought	230
Index	231