Contents

Introduction xiii
Andrew Coles

Biographical Sketch, Paul H. Levine xix
David G. Hawkins

Acknowledgments xxi

PART I: STANDARD MIDAS SUPPORT AND RESISTANCE CURVES

CHAPTER 1
MIDAS and Its Core Constituents: The Volume Weighted Average Price (VWAP) and Fractal Market Analysis 3
Andrew Coles
MIDAS and Its Two Key Backdrops: VWAP and Fractal Market Analysis 4
The MIDAS Approach as a Genuine Standalone Trading System 20
Summary 26

CHAPTER 2
Applying Standard MIDAS Curves to the Investor Timeframes 29
David G. Hawkins
Definitions of Timeframes—The Triple Screen Trading Methodology 29
MIDAS Curves within the Triple Screen System 31
The Basic Behavior of the MIDAS Support/Resistance Curves 31
Equivolume Charting 32
What Price Should Be Used? 35
Support/Resistance Becomes Resistance/Support 35
Distinguishing an Uptrend from a Trading Range 39
The Foothill Pattern 40
A Trading Range Turning into a Downtrend 41
Tracking a Trend with a Hierarchy of MIDAS Curves 43
MIDAS S/R Curves for Entry Setups and Triggers 46
Same Launch Point, Different Timeframes 48
Special Start Points—The Left Side 50
Special Start Points—The Initial Public Offering (IPO) 53
Special Starting Points—The Down Gap and Its Dead Cat Bounce 55
Special Starting Points—The Highest R and the Lowest S 57
Summary 59
## CHAPTER 3
MIDAS Support and Resistance (S/R) Curves and Day Trading

*Andrew Coles*

- Multiple Trend and Timeframe Analysis 62
- Part One: The MIDAS System as a Standalone Day Trading System 68
- Part Two: Using the MIDAS System alongside Other Technical Indicators 82
- Capturing Today's High and Low with Standard MIDAS S/R Curves 119
- Summary 120

## PART II: THE MIDAS TOPFINDER/BOTTOMFINDER

## CHAPTER 4
The MIDAS Topfinder/Bottomfinder on Intraday Charts

*Andrew Coles*

- Levine's Two Insights Governing the MIDAS Methodology 126
- Part One: The Quantitative Features of the TB-F Algorithm 126
- Part Two: The Engineering Aspect of TB-F Curves 135
- Summary 159

## CHAPTER 5
Applying the Topfinder/Bottomfinder to the Investor Timeframes

*David G. Hawkins*

- A Most Unusual Indicator 161
- The Basic Program of the TB-F 162
- What is an Accelerated Trend? 162
- Discovering the Topfinder/Bottomfinder 163
- Using the TB-F 165
- An Interesting Mathematical Observation 166
- Fitting the TB-F Curve in Chart Views Other than Equivolume 167
- Fitting to More than One Pullback 170
- Nested TB-Fs: The Fractal Nature of the Market 178
- TB-F Curves on Different Timeframes 180
- Bottomfinders Are Sometimes Problematic 185
- What Comes after a TB-F Ends? 187
- Summary 188

## PART III: THE LONGER-TERM HORIZON, OTHER VOLUME INDICATORS, AND BROADER PERSPECTIVES

## CHAPTER 6
Applying MIDAS to Market Averages, ETFs, and Very Long-Term Timeframes

*David G. Hawkins*

- Using MIDAS with the Indices—The S/R Curves 195
- The Validity of Volume Data 198
- Using MIDAS with the Indices—The TB-F 201
Contents

Using Exchange-Traded Funds Instead of Market Indices 202
MIDAS Applied to Long- and Very Long-Term Timeframes 205
Back to 1871 209
Inflation Adjustment 209
A Closer Look at the Very Long-Term 211
The Very Long-Term Horizontal S/R Levels 213
The Bavarian Deer Herd 214
What Can Be Said about the Very Long-Term Future? 215
Summary 218

CHAPTER 7
EquiVolume, MIDAS and Float Analysis 219
David G. Hawkins
The Basic Principle—“Volume Leads to Volume” 219
Why Does Price Projection Work? 221
The Connection between Price Projection and the Topfinder/Bottomfinder 223
Using Price Projection 224
Steve Woods’ Float Analysis 227
Volume Periodicity 230
Summary 237

CHAPTER 8
Putting It All Together 239
David G. Hawkins
Trend Following 239
Calling Bottoms 249
Base Breakouts 251
Summary 254

PART IV: NEW DEPARTURES

CHAPTER 9
Standard and Calibrated Curves 257
David G. Hawkins
Discovering the Calibrated Curves 257
Examples 258
Summary 267

CHAPTER 10
Applying the MIDAS Method to Price Charts without Volume: A Study in the Cash Foreign Exchange Markets 269
Andrew Coles
MIDAS and Cash Foreign Exchange Markets 269
A Comparison of the MIDAS S/R Curves Using Cash FX Intraday Tick Data and Intraday Futures Volume Data 270
A Comparison of the MIDAS Topfinder/Bottomfinder Curves Using Cash FX Intraday Tick Data and Intraday Futures Volume Data 273
Options in the Cash Foreign Exchange Markets for Higher Timeframe Charts 275
Contents

Options 1 and 3—Replacing Cash Forex Markets with Futures Markets or Currency ETFs/ETNs 276
Using MIDAS S/R Curves in Markets without Volume: The Daily and Weekly Cash FX Charts 277
Using MIDAS Topfinder/Bottomfinder Curves in Markets without Volume: The Daily and Weekly Cash FX Charts 280
Summary 283

CHAPTER 11
Four Relationships between Price and Volume and Their Impact on the Plotting of MIDAS Curves 285
Andrew Coles

Relationships between Price and Volume Trends and the Four Rules Affecting the Plotting of MIDAS Curves 286
Applying the Rules to Applications of Standard and Nominal MIDAS S/R Curves 290
Using Relative Strength or Ratio Analysis 294
Summary 296

CHAPTER 12
MIDAS and the CFTC Commitments of Traders Report: Using MIDAS with Open Interest Data 297
Andrew Coles

An Overview of Open Interest and Open Interest Data Options 298
The Orthodox Interpretation of Changes in Open Interest 299
A First Look at Standard MIDAS Support/Resistance Curves with Open Interest 300
Pursuing MIDAS and Open Interest More Deeply 302
Concise Overview of the Commitment of Traders (COT) Report 302
Understanding the Main Players in the Legacy Report 303
Identifying the Key Players in the COT Report 304
Choosing the Appropriate Category of Open Interest 307
MIDAS and Total Open Interest 308
Choosing between Commercial and Noncommercial Positioning Data 312
Measuring the Market with Commercial Net Positioning Data 315
MIDAS and COT Report Timing 318
Comparing the Commercial Net Positioning Indicators with MIDAS using Noncommercial Net Positioning Data 319
Additional Reading 327
Summary 328

CHAPTER 13
Price Porosity and Price Suspension: The Causes of these Phenomena and Several Partial Solutions 331
Andrew Coles

Porosity and Suspension Illustrated 332
Identifying the Cause of the Two Phenomena 333
Solving the Problem of the Two Phenomena 334
Summary 342
CHAPTER 14
A MIDAS Displacement Channel for Congested Markets 345
Andrew Coles
The Problem: Mean Reversion in Sideways Markets 346
The Solution: Applying a Displacement Channel to Sideways Markets 348
MIDAS Displacement Channel Methodology 349
Trading Implications of the MDC 349
Additional Forecasting Implications 349
Additional Benefit: Applying the MDC to Trending Markets to Capture Swing
Highs in Uptrends and Swing Lows in Downtrends 350
Second Benefit: Applying the MDC to the Problem of Price Porosity 353
Comparing the MDC with the Moving Average Envelope 355
The MDC in Relation to Topfinder/Bottomfinder (TB-F) Curves 356
The MDC in Relation to the MIDAS Standard Deviation Bands 356
Features of the MDC in Relation to other Boundary Indicators 356
Summary 357

CHAPTER 15
MIDAS and Standard Deviation Bands 359
Andrew Coles
The MIDAS Standard Deviation Bands in Sideways Markets 360
The MIDAS Standard Deviation Bands in Uptrends and Downtrends 361
Band Adjustment for Shorter Timeframe Analysis 363
The MSDBs and Narrowing Volatility 363
Comparing the MSD with the MIDAS Displacement Channel 364
Alternatives to Standard Deviation 365
Trading with the MIDAS Standard Deviation Bands 368
Summary 370

CHAPTER 16
Nominal–On Balance Volume Curves (N-OBVs) and
Volume–On Balance Curves (V-OBVs) 371
Andrew Coles
On Balance Volume for the Uninitiated 371
Nominal–On Balance Volume Curves 373
The Dipper Setup 377
Volume–On Balance Volume Curves 377
Further Chart Illustrations 378
Summary 381

CHAPTER 17
Extensions, Insights, and New Departures in MIDAS Studies 383
Andrew Coles
MIDAS Curves and Volume-Based Oscillators 384
Correlation Analysis as an Effective Overbought/Oversold Oscillator 389
The Contributions of Bob English 391
Summary 400
## Contents

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>APPENDIX A Programming the TB-F</td>
<td>403</td>
</tr>
<tr>
<td></td>
<td>David G. Hawkins</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>APPENDIX B MetaStock Code for the Standard MIDAS S/R Curves</td>
<td>411</td>
</tr>
<tr>
<td></td>
<td>Andrew Coles</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>APPENDIX C TradeStation Code for the MIDAS Topfinder/Bottomfinder Curves</td>
<td>413</td>
</tr>
<tr>
<td></td>
<td>Bob English</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Notes</td>
<td>417</td>
</tr>
<tr>
<td></td>
<td>About the Authors</td>
<td>433</td>
</tr>
<tr>
<td></td>
<td>Index</td>
<td>435</td>
</tr>
</tbody>
</table>