## Contents

Preface  xiii  
Acknowledgments  xv  

Introduction  1  

### Chapter 1. Management Accounting and Excel  3  
- Assumptions  3  
- The Goal of Reporting  5  
- Why Use Excel?  5  
- The Goal of This Book  6  
- Monthly Management Reports  7  
- Macro Policy  7  

### Chapter 2. Building Reporting Models  9  
- Needs Analysis  10  
- Scope Definition  10  
- Design  11  
- Construction  11  
- Testing  12  
- Operation  12  
- Maintenance  12  
- Time, Effort, and Cost  12  
- Practical Considerations  13  

### Chapter 3. Building Tips  15  
- Display Tips  16  
- Keyboard Shortcuts  26  
- Mouse Shortcuts  33  
- Keyboard and Mouse Shortcuts  42  
- General Tips  48  

### Chapter 4. Design and Structure  57  
- Structure = Flexibility  57  
- Modular Sheet Design  58  
- Standardised Report Layout  60
Table-Based Systems 62
Spreadsheet Best Practices 63

Chapter 5. Setting the Foundation 67
  Terminology 68
  Data Rules 68
  Data Structures 69
  Format as Table 70
  Data Cleansing Techniques 74
  External Data 80

Chapter 6. Pivot Tables (Do-It-Yourself Reporting) 85
  The Pros and Cons of a Pivot Table 85
  Creating a Pivot Table 88
  PowerPivot 108

Chapter 7. Tools of the Trade: Summing Functions 111
  Range Names 112
  Using Cells and Ranges in Formulas 112
  The Humble SUM Function 116
  Advanced SUM and 3D Formulas 117
  Subtotaling 120
  The SUBTOTAL Function 121
  The AGGREGATE Function 125
  Function Wizard 127
  Conditional Summing 127
  The SUMIF Function 131
  SUMIF Uses 135
  Helper Cells 135
  The SUMIFS Function 136
  The SUMPRODUCT Function 138

Chapter 8. Accessories: Other Reporting Functions and Features 153
  Helper Cells 153
  Logic Functions 155
  The IF Function 157
  The AND and OR Functions 161
  Lookup Functions 164
  The VLOOKUP Function 164
  The HLOOKUP Function 168
  An Alternative to VLOOKUP 170
  The INDEX and MATCH Functions 170
  The MATCH Function 170
  The INDEX Function 172
The INDEX-MATCH Combination 174
Error Handling Functions 175
The IFERROR Function 175
Handling Specific Errors 177
Text-Based Functions 180
The TEXT Function 181
LEFT and RIGHT Functions 183
The MID Function 184
Flexible Text Manipulations 185
The SEARCH Function 185
The LEN Function 187
Flexible Splitting 187
The SUBSTITUTE Function 188
Converting Text to Numbers 190
Date Functions 190
The DATE Function 191
Other Useful Functions 192
Array Formulas 201

Chapter 9. Range Names 209
Advantages 210
Disadvantages 210
Creating a Range Name 211
Using Range Names 213
Name Manager 216
Naming a Range 218
Creating Names Automatically 222
Name Intersections 227
Dynamic Range Names 228
Using Structure in Range Names 233
INDIRECT and Range Names 236
Listing Range Names 237

Chapter 10. Maintenance Issues 239
Maintenance Instructions 239
The Advantages of Using Tables 240
Common Issues 241
Rolling the Year 241
Working with Days 242
Simplifying the Interface by Using Controls 244

Chapter 11. Choosing the Right Format 255
Colour Blindness 255
Format Painter 256
Less Is More 256
Fonts 257
## Clear and Start Again
The Format Cells Dialog Box
Styles
Conditional Formatting
Printing Issues

### Chapter 12. Picture Perfect: Charting Techniques

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chart versus Graph</td>
<td>300</td>
</tr>
<tr>
<td>Chart Basics</td>
<td>300</td>
</tr>
<tr>
<td>Charts for Reports</td>
<td>302</td>
</tr>
<tr>
<td>Automating Charts</td>
<td>302</td>
</tr>
<tr>
<td>Mixing Chart Types</td>
<td>307</td>
</tr>
<tr>
<td>Dual-Axis Charts</td>
<td>308</td>
</tr>
<tr>
<td>Handling Missing Data</td>
<td>311</td>
</tr>
<tr>
<td>Labeling Highs and Lows</td>
<td>313</td>
</tr>
<tr>
<td>Trendlines and Moving Averages</td>
<td>315</td>
</tr>
<tr>
<td>Plotting the Variance</td>
<td>316</td>
</tr>
<tr>
<td>Dashboard Techniques</td>
<td>317</td>
</tr>
<tr>
<td>Text in a Chart</td>
<td>331</td>
</tr>
<tr>
<td>The Data Series Formula</td>
<td>332</td>
</tr>
<tr>
<td>Before and After Charts</td>
<td>333</td>
</tr>
</tbody>
</table>

### Chapter 13. Quality Control: Report Validation

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifying Errors</td>
<td>337</td>
</tr>
<tr>
<td>Validations</td>
<td>338</td>
</tr>
<tr>
<td>Error Tracking</td>
<td>340</td>
</tr>
<tr>
<td>Identifying New Codes</td>
<td>346</td>
</tr>
<tr>
<td>Conditional Formatting</td>
<td>347</td>
</tr>
<tr>
<td>Suggested Validation Structure</td>
<td>347</td>
</tr>
<tr>
<td>Reasonableness Checks</td>
<td>349</td>
</tr>
</tbody>
</table>

### Chapter 14. Case Study One: Month and Year-to-Date Reporting

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scenario</td>
<td>351</td>
</tr>
<tr>
<td>Data Requirements</td>
<td>352</td>
</tr>
<tr>
<td>Processes</td>
<td>352</td>
</tr>
<tr>
<td>Structure</td>
<td>354</td>
</tr>
<tr>
<td>Design</td>
<td>354</td>
</tr>
<tr>
<td>Report Layout</td>
<td>355</td>
</tr>
<tr>
<td>The Creation Process</td>
<td>355</td>
</tr>
<tr>
<td>The Reports</td>
<td>363</td>
</tr>
</tbody>
</table>

### Chapter 15. Case Study Two: 12-Month Reporting

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scenario</td>
<td>379</td>
</tr>
<tr>
<td>Data Requirements</td>
<td>380</td>
</tr>
<tr>
<td>Processes</td>
<td>381</td>
</tr>
<tr>
<td>Structure</td>
<td>381</td>
</tr>
<tr>
<td>Design</td>
<td>382</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----</td>
</tr>
<tr>
<td>The Creation Process</td>
<td>382</td>
</tr>
<tr>
<td>The Reports</td>
<td>387</td>
</tr>
</tbody>
</table>

**Chapter 16. Final Thoughts**  
Feedback  
Last Words  

**About the Author**  

**About the Companion Website**  

**Index**