CONTENTS

List of Figures, Tables, and Exhibits ............................................ xv
Dedication ................................................................................... xix
Preface .......................................................................................... xxi
Acknowledgments ........................................................................ xxxiii
The Author ..................................................................................... xxxv

1 Management Accounting and Health Care’s Impending Fiscal Crisis ........................................... 1

   Learning Objectives ........................................................................ 1
   Organization of the Chapter ........................................................... 1
   Four Forces Affecting Health Care Costs ........................................ 2
       Demographic Changes ................................................................. 2
       Spending Patterns for the Elderly ................................................ 3
       Morbidity in the Nonelderly Population ...................................... 5
       Complexity of the Health Care Market ...................................... 5
   Responding to the Four Forces ...................................................... 7
       Case Mix and Volume ................................................................. 7
       Resources per Case ................................................................... 8
       Cost per Resource Unit ............................................................. 11
       Fixed Costs .............................................................................. 12
   The Health Care Food Chain ........................................................ 13
       The Food Chain versus the Value Chain .................................... 14
   Impact of the Affordable Care Act ................................................. 15
   Cost Control Is Everyone’s Business ............................................. 16
   Management Accounting Systems .............................................. 17
   Key Terms .................................................................................... 18
   To Bear in Mind ............................................................................ 18
   Test Yourself ................................................................................. 19
   Suggested Cases .......................................................................... 19
   Practice Case: Central Valley Primary Care Associates ................. 19
2 Essentials of Full-Cost Accounting 29

Learning Objectives 29
Organization of the Chapter 29
Uses of Full-Cost Information 30
  Pricing Decisions 30
  Profitability Assessments 30
  Comparative Analyses 30
Issues to Consider in Calculating Full Costs 32
  Resource Use: A Conceptual Framework 33
Units of Measure 34
Limitations 35
Cost Drivers 35
The Full-Cost Accounting Methodology 35
  Decision 1: Defining the Final Cost Objects 36
  Decision 2: Determining Mission and Support Cost Centers 37
  Decision 3: Distinguishing between Direct Costs and Indirect Costs 39
  Decision 4: Choosing Allocation Bases for Support Center Costs 41
  Decision 5: Selecting an Allocation Method 46
  Decision 6: Attaching a Mission Center’s Costs to Its Cost Objects 50
Managerial Judgment 51
Determining the Impact on Customer Prices 51
Some Pricing Complications 52
Summary of Cost Accounting Choices 53
Key Terms 54
To Bear in Mind 54
Test Yourself 54
Suggested Cases 55
Practice Case: Mossy Bog Laboratories 55
Appendix 2A: The Reciprocal Method of Cost Allocation 56
Appendix 2B: Pricing in Nonprofit Organizations 58

3 Cost Behavior 73

Learning Objectives 73
Organization of the Chapter 73
Chapter 4: Differential Cost Accounting

Learning Objectives
Organization of the Chapter
The Differential Cost Concept
Principle 1: Full-Cost Information Can Be Misleading
Principle 2: Differential Costs Can Include Both Fixed and Variable Costs
Principle 3: Assumptions Are Needed
Principle 4: Causality Is Needed
Principle 5: Sensitivity Analysis Can Be Helpful
Principle 6: A Contribution Income Statement Can Be Useful
Sunk Costs
Sunk Costs and Intuition
Sunk Costs in Organizational Settings
## 5 Activity-Based Costing

<table>
<thead>
<tr>
<th>Learning Objectives</th>
<th>125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization of the Chapter</td>
<td>125</td>
</tr>
<tr>
<td>Health Care's Stage 2 Challenge</td>
<td>126</td>
</tr>
<tr>
<td>The Ratio of Costs to Charges</td>
<td>127</td>
</tr>
<tr>
<td>Solving the Problem</td>
<td>129</td>
</tr>
<tr>
<td>A Functional Classification of Manufacturing Costs</td>
<td>129</td>
</tr>
<tr>
<td>Direct Manufacturing Costs</td>
<td>129</td>
</tr>
<tr>
<td>Indirect Manufacturing Costs</td>
<td>130</td>
</tr>
<tr>
<td>Applicability to Health Care</td>
<td>131</td>
</tr>
<tr>
<td>Some Terminology Cautions</td>
<td>132</td>
</tr>
<tr>
<td>Computing a Product's Full Cost</td>
<td>132</td>
</tr>
<tr>
<td>Process System</td>
<td>132</td>
</tr>
<tr>
<td>Job Order System</td>
<td>132</td>
</tr>
<tr>
<td>Unit Costs</td>
<td>134</td>
</tr>
<tr>
<td>The Overhead Rate</td>
<td>134</td>
</tr>
<tr>
<td>Absorption Costing in Health Care Organizations</td>
<td>139</td>
</tr>
<tr>
<td>Activity-Based Costing</td>
<td>140</td>
</tr>
<tr>
<td>Conditions for ABC</td>
<td>141</td>
</tr>
<tr>
<td>Establishing Multiple Second-Stage Overhead Rates</td>
<td>142</td>
</tr>
<tr>
<td>A General Approach</td>
<td>146</td>
</tr>
</tbody>
</table>
Contents

Key Terms ................................. 151
To Bear in Mind .......................... 151
Test Yourself ............................. 152
Suggested Cases ......................... 152
Practice Case A: Lincoln Dietary Department .................. 152
Practice Case B: Owen Hospital ................. 154

6 Responsibility Accounting: An Overview .................. 161
Learning Objectives ........................ 161
Organization of the Chapter .................. 161
Cost Accounting and Responsibility Accounting ............. 162
Designing a Responsibility Accounting System ............. 164
The Responsibility Accounting Structure ................... 165
  Types of Responsibility Centers .................... 166
  Role of Senior Management ..................... 169
  The Design Process .......................... 170
Aligning Responsibility and Control: The Fairness Criterion .............. 172
The Responsibility Accounting Framework .................. 173
  Strategic Planning .......................... 173
  Task Control .............................. 173
  Management Control ....................... 174
Formal Management Control Activities .................... 175
  Programming .............................. 175
  Budgeting ................................. 177
  Operating and Measuring ..................... 179
  Reporting ................................. 181
Key Terms ................................. 183
To Bear in Mind .......................... 183
Test Yourself ............................. 183
Suggested Cases ........................... 184
Practice Case: Akron Public Health Department ............. 184

7 Designing the Responsibility Accounting Structure .......... 189
Learning Objectives ........................ 189
Organization of the Chapter .................. 189
Making Profit Centers Work .................... 190
  The Fairness Criterion ...................... 190
  The Goal Congruence Criterion ............. 191
Transfer Pricing Arrangements ................... 192
The Cross-Subsidization Policy .................... 192
<table>
<thead>
<tr>
<th>Content</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Complications</td>
<td>193</td>
</tr>
<tr>
<td>Matrix Organizations</td>
<td>194</td>
</tr>
<tr>
<td>Complex Matrix Organizations</td>
<td>195</td>
</tr>
<tr>
<td>Responsibility Centers and Motivation</td>
<td>197</td>
</tr>
<tr>
<td>Role of Contingent Compensation</td>
<td>197</td>
</tr>
<tr>
<td>Overarching Themes</td>
<td>198</td>
</tr>
<tr>
<td>Link to the Responsibility Accounting System</td>
<td>199</td>
</tr>
<tr>
<td>Transfer Pricing Problems</td>
<td>199</td>
</tr>
<tr>
<td>Issues to Consider in Setting Transfer Prices</td>
<td>201</td>
</tr>
<tr>
<td>Autonomy versus Central Control</td>
<td>202</td>
</tr>
<tr>
<td>Rules of the Game</td>
<td>202</td>
</tr>
<tr>
<td>Price Consistency</td>
<td>202</td>
</tr>
<tr>
<td>Standby Capacity</td>
<td>203</td>
</tr>
<tr>
<td>Relation to Informal Authority and Influence</td>
<td>203</td>
</tr>
<tr>
<td>Key Terms</td>
<td>205</td>
</tr>
<tr>
<td>To Bear in Mind</td>
<td>206</td>
</tr>
<tr>
<td>Test Yourself</td>
<td>206</td>
</tr>
<tr>
<td>Suggested Cases</td>
<td>207</td>
</tr>
<tr>
<td>Practice Case: Valley Hospital</td>
<td>207</td>
</tr>
<tr>
<td><strong>8 Programming</strong></td>
<td>211</td>
</tr>
<tr>
<td>Learning Objectives</td>
<td>211</td>
</tr>
<tr>
<td>Organization of the Chapter</td>
<td>211</td>
</tr>
<tr>
<td>Programming: An Overview</td>
<td>212</td>
</tr>
<tr>
<td>Capital Budgeting Techniques</td>
<td>212</td>
</tr>
<tr>
<td>Capital Investment Decision Making</td>
<td>213</td>
</tr>
<tr>
<td>Tax Effects</td>
<td>218</td>
</tr>
<tr>
<td>Selecting A Discount Rate</td>
<td>218</td>
</tr>
<tr>
<td>Step 1: Agree on an Interest Rate for Equity</td>
<td>219</td>
</tr>
<tr>
<td>Step 2: Determine the Interest Rates for Liabilities</td>
<td>219</td>
</tr>
<tr>
<td>Step 3: Compute the Weighted Cost of Capital</td>
<td>220</td>
</tr>
<tr>
<td>Step 4: Use the WCC to Determine the Rate of Return</td>
<td>220</td>
</tr>
<tr>
<td>Needed for Fixed Assets</td>
<td>220</td>
</tr>
<tr>
<td>Incorporating Risk into the Analysis</td>
<td>222</td>
</tr>
<tr>
<td>Nonquantitative Considerations</td>
<td>223</td>
</tr>
<tr>
<td>Link to Strategy</td>
<td>224</td>
</tr>
<tr>
<td>Link to Conflict Management</td>
<td>226</td>
</tr>
<tr>
<td>Key Terms</td>
<td>227</td>
</tr>
<tr>
<td>To Bear in Mind</td>
<td>227</td>
</tr>
<tr>
<td>Test Yourself</td>
<td>228</td>
</tr>
<tr>
<td>Suggested Cases</td>
<td>228</td>
</tr>
</tbody>
</table>
9 Operational Budgeting .......................... 245
  Learning Objectives .......................... 245
  Organization of the Chapter ................. 246
  General Nature of the Operating Budget .... 246
    Relationship between Programming and Budgeting .... 246
    Contrast with Manufacturing Companies ....... 248
  Managerial Context for the Operating Budget ... 248
    Organizational Context ...................... 249
    Budgeting Context ........................ 250
    Budget Formulation ........................ 252
    Reporting Results .......................... 254
  Components of the Operating Budget .......... 254
    Revenues .................................. 254
    Expenses .................................. 256
    Nonfinancial Measures ..................... 258
  Steps in Formulating the Operating Budget .. 258
    Step 1: Disseminating Guidelines ............ 258
    Step 2: Preparing Revenue Budgets .......... 259
    Step 3: Preparing Expense Budgets for Profit and
      Standard Expense Centers ................. 259
    Step 4: Preparing Expense Budgets for Discretionary
      Expense Centers .......................... 260
    Step 5: Preparing the Master Budget ......... 260
  Use of Models ................................ 261
  Important Features ........................... 266
  Related Organizational Aspects .............. 267
    Expense Creep .............................. 268
    Behavioral Issues .......................... 268
    Role of Professionals ..................... 269
  Toward More Effective Budgeting .............. 269
  Key Terms .................................. 270
  To Bear in Mind ................................ 270
  Test Yourself ................................ 270
  Suggested Cases .............................. 271
  Practice Case: Los Reyes Hospital ............ 271
  Appendix 9A: Budgeting Misfits ............... 273
## 10 The Cash Budget .......................................................... 279

- Learning Objectives .................................................. 279
- Organization of the Chapter ........................................ 279
- Link to the Dual-Aspect Concept .................................. 280
- Cash-Related Cycles .................................................... 281
  - The Operating Cycle ................................................. 281
  - The Financing Cycle ............................................... 283
  - The Revenue Cycle ................................................ 285
- Key Cash Management Concepts .................................... 286
  - Debt Structure ....................................................... 286
  - Leverage .............................................................. 288
  - The Role of Profit (or Surplus) .................................. 290
- Making the Forecasts .................................................. 293
  - Growth ............................................................... 294
  - Product Line Changes .............................................. 294
- The Statement of Cash Flows ........................................ 295
  - Operating Activities .............................................. 295
  - Investing Activities ............................................... 296
  - Financing Activities .............................................. 298
- Key Terms ..................................................................... 299
- To Bear in Mind ........................................................ 299
- Test Yourself .................................................................. 299
- Suggested Cases ........................................................ 300
- Practice Case: Gotham Meals on Wheels ......................... 300

## 11 Measuring and Reporting ............................................... 305

- Learning Objectives .................................................. 305
- Organization of the Chapter ........................................ 305
- The Measuring Phase .................................................. 305
- Aligning Responsibility with Control ............................. 306
- Measuring Techniques ................................................. 306
  - Flexible Budgeting ................................................... 306
  - Variance Analysis .................................................... 308
  - A Graphic Illustration ............................................... 309
  - Calculating Variances .............................................. 311
- Managerial Uses of Variances ....................................... 316
- Limitations of Variance Analysis ................................... 317
- The Reporting Phase .................................................... 318
  - Timeliness ............................................................. 318
  - Hierarchy of Information .......................................... 318
Figures

1.1 Demographic Trends 2
1.2 Percentage of the Population 60 Years Old and Over in 2015 in Selected European Countries and the United States 3
1.3 Health Care Costs in Catalonia (in Millions of Euros) 4
1.4 Medicare Spending Patterns 4
1.5 Morbidity among Those Not Yet Eligible for Medicare 5
1.6 Five Separate Health Care Markets 6
1.7 Health Care Cost Drivers 7
1.8 Number of Cases versus Cost per Case 9
1.9 Alternative Treatment Patterns for a 48-Year-Old, Presenting in the Emergency Room with Atypical Chest Pain, Positive Smoking, and Family History, with a Normal Electrocardiogram (EKG) 10
1.10 Health Care Food Chain 14
1.11 Estimates of the Medicare Part A Trust Fund Balance 16
1.12 Variation in Average 2009 Medicare Spending among Selected Hospitals for a 90-Day Episode of Congestive Heart Failure 17
2.1 The Stepdown Method 49
3.1 Types of Cost Behavior 74
3.2 Fixed and Variable Costs versus Mission and Support Center Costs 77
3.3 The Fundamental Profit Equation 80
4.1 Outsourcing Risk 116
5.1 Manufacturing Cost Terminology 130
5.2 Job Ticket for Buzzard Glen Hospital 133
6.1 The Management Control Process 175
7.1 Typical Matrix Structure 194
7.2 Matrix Structure in a Department of Mental Health 196
9.1 Simple Matrix Structure 247
9.2 Organizational and Budgeting Contexts 249
9.3 Budgeting in a Hospital 263
10.1 The Operating Cycle 282
10.2 The Financing Cycle 284
10.3 Business Risk versus Financial Risk 290
11.1 Reporting Hierarchy for an Integrated Delivery System (in Thousands of Dollars) 320
11.2 Reporting Hierarchy for a Department of Mental Health: Program Analysis (in Thousands of Dollars) 322
11.3 Reporting Hierarchy for Spencer Rehabilitation Hospital, First and Sixth Levels (in Thousands of Dollars) 323
11.4 Example of a Spidergram 329
12.1 Cross-Functional Activities in an Organization 347
12.2 Commitment to Change 350
12.3 Impact versus Difficulty 351

Tables

2.1 Examples of Cost Drivers in a Hospital 36
2A.1 Basic Information for a Reciprocal Cost Allocation 56
2A.2 Allocation of Support Center Costs to Mission Centers (in Thousands of Dollars) 57
6.1 Summary of Management Accounting Information 163
6.2 Types of Responsibility Centers and Their Financial Objectives 166
8A.1 Present Value of $1 233
8A.2 Present Value of $1 Received Annually for N Years 234
9.1 Line-Item and Program Budgets for a Public Health Department (in Thousands of Dollars) 257
9.2 Spreadsheet Model for a Hospital Budget 264
10.1 Balance Sheet for Homecare, as of January 31 (in Thousands of Dollars) 280
10.2 Examples of Leverage 289
10.3 Cash Needs Associated with Growth 292
10.4 Using Income to Finance Growth-Related Cash Needs 294
10.5 Two SCF Formats, for the Year Ending December 31 (in Thousands of Dollars) 296
11.1 Types of Variances and Controlling Agents 317
11.2 Measures of Nonfinancial Performance 325
11.3 Program Performance Report Framework: Commonwealth Medical School 327

Exhibits

P.1 Management Accounting Learning Objectives xxviii
1.1 Top 3 Outpatient Diagnoses for Ages 5 to 11 for the First 6 Months of the Current Fiscal Year 23
1.2 Top 10 Primary Inpatient Diagnoses for Ages 5 to 11 for the Last Fiscal Year 23
1.3 Fee Schedule for the Division of General Pediatrics for the Current Fiscal Year (All Amounts in Dollars) 24
1.4 Wages and Prices for the Current Fiscal Year 24
1.5 Tests and Procedures for the Top 3 Inpatient Diagnoses for Ages 5 to 11 for the Last Fiscal Year 25
2B.1 Pricing Alternatives in a Hospital 65
3A.1 Dietary Department Information for 3 Months 94
3B.1 Program Cost Analysis, Normal Year 96
5A.1 Direct Manufacturing Cost for One Meal 154
5A.2 Budgeted Overhead Costs 154
5A.3 Production Data 154
5B.1 Abbreviated Hospital Cost Report 157
5B.2 Computing the Average Full Cost per Unit 158
5B.3 Cost for 2 Patients 158
5B.4 Information Obtained by Mr. McCarthy 159
6.1 Profit Center Status Report 187
8.1 Example of a Qualitative Evaluation 224
8.2 Weighted Cost of Capital 229
9.1 Budget Data 273
10.1 Balance Sheet as of December 31 302
11B.1 Original Budget 332
11B.2 Actual Results 334
11B.3 Actual Results with Calculations 335
11B.4 Flexible Budget and Related Variances 337
B.1 Structure of Relationships 378
B.2 Cost Drivers and Controlling Agents 379
B.3 Cost and Price Projections 379
B.4 Projections for Capitation Rate 381
B.5 Contribution Analysis with New Assumptions (in RMB) 388
B.6 Computing Full Cost per Unit with 3 Departments Unbundled
B.7 Attaching Costs to 2 Patients (Using the ABC-Like System)
B.8 Operating Budget
B.9 Formulas
B.10 Revised Operating Budget 1: 10 Percent Reduction in Average Length of Stay
B.11 Responsibility Center Issues
B.12 Financial Statements
B.13 Formulas (October to March Only)
B.14 Productivity and Use Variances
B.15 Wage, Price, and Efficiency Variances
B.16 Summary of Variances
B.17 The Cross-Functional Framework
B.18 Group Practice Options
B.19 Goal Congruence Issues
B.20 Choices Made in the Implementation Process, and Possible Alternatives
This book is dedicated to the memory of Andy Pasternack, a leader in the development of instructional materials for the health care field, and a professional with quality standards that the rest of us can only aspire to attain.

We all miss him.
This book provides introductory-level instruction for students of health care management who are studying management accounting for the first time, or for those who want a refresher as part of a course in advanced management accounting. It offers a user-oriented approach to management accounting concepts and techniques that will help prepare them for work in an environment where an understanding of management accounting is important to their success.

Management accounting is concerned primarily with the information needs of an organization’s managers. In general, these needs arise in three areas: full-cost accounting, differential cost accounting, and responsibility accounting. The distinctions among these different types of accounting are discussed later in this preface.

To the Student

The working assumption of this book is that you have no prior knowledge of management accounting. My goal is that, on completing the book, you will be knowledgeable about both the uses and the limitations of management accounting information. To accomplish this, I place minimal emphasis on the technical aspects of preparing accounting information, covering only those technical matters that are essential to understanding the computations that the accounting staff typically makes. Most of the material focuses on the meaning and utility of accounting information for managers and other users.

In general, the learning process consists of developing new skills, which can be acquired only by practice. Learning management accounting is a bit like learning about a new city. If someone takes you on drives around the city, you will probably learn very little about how to get from one place to another. If you drive by yourself, however, you will learn a great deal about the city—acquiring far more knowledge on a single trip than you would in dozens of trips as a passenger.

In this book, you are the driver rather than the passenger. The idea is for you to practice (and learn) accounting while you read each chapter. You
will have opportunities to prepare answers to problems that appear throughout the chapters and to analyze a practice case (sometimes two) at the end of the chapter. There are several features to keep in mind as you engage in this effort.

**Minimal Memorization**

Throughout each chapter, the important terms are defined in the margins. These terms also are contained in a glossary at the end of the book.

Having the definitions readily available means that you do not need to spend time memorizing them. Indeed, some management accounting terms are not used in a consistent way by everyone, so memorizing definitions may actually be counterproductive.

Rather than memorizing the terms, you should focus instead on mastering the concepts and analytical techniques discussed in each chapter. The book guides you as you work with these concepts and techniques so you can see how they are developed and applied. Please note that the discussion in each chapter assumes that you understand the material covered in the prior chapters, so it is important to work through the chapters in order.

**Interactive Learning**

A distinctive feature of this book is its interactive approach to the learning process. You are regularly asked to stop reading and work out the solution to a problem. The idea is to shorten the feedback loops in the learning process. Rather than answering questions or analyzing problems only at the end of each chapter, you can apply what you have learned about a topic immediately following the discussion about it. When the discussion of a topic is lengthy, problems may be presented throughout.

You may be tempted to shortcut this process, but please do not succumb to temptation. Shortcutting will compromise your mastery of the material. Indeed, the reasoning in the answer to a problem can be quite seductive: if you look at it before working out your own answer, you may find yourself in agreement with it, saying something like, “That’s how I would have done it, if I had done it.” But you may not have fully internalized the analytical techniques. Actually working through a problem, arriving at a solution, and then comparing it to the answer will give you an understanding of the logic behind the related accounting concept and allow you to apply it to real-life problems. To take full advantage of the interactive feature, you should answer each problem to the best of your ability before looking at the answer provided in the text.
In short, to learn management accounting, you must struggle through the process of arriving at solutions yourself, gaining understanding from both your successes and your mistakes. To prepare for this learning process, you should have a pencil, a calculator, and a supply of paper next to you while you are reading each chapter. A problem begins as follows:

**PROBLEM**

The problem statement is in a different typeface and is indicated with a question mark, as shown here.

**ANSWER**

The answer to the problem, also in a different typeface, immediately follows the problem, as shown here.

Use a blank sheet of paper to cover the answer as you work out the solution to each problem. Then compare your solution and associated reasoning with the answer provided. If your comparison shows that your solution is correct, continue reading. If you have an incorrect answer, spend as much time as you need to figure out where you went wrong. This may require rereading the section of the chapter immediately preceding the problem.

**Short Chapters**

Most of the chapters are relatively short. Reading a chapter and working your way through the problems can take several hours, however, so it’s normal to feel that you are working slowly.

You should not try to cram the learning process into a short period of time, because you need to digest the material slowly as you go along. If you believe you already understand the material in a particular section and therefore do not need to read that section, you should prepare solutions to the problems in the section to confirm your understanding.

**End-of-Chapter Tools**

Each chapter contains, in addition to the problems for you to solve, three tools to help you verify your understanding of the concepts and techniques that were covered in the text.
To Bear in Mind
This section highlights two of the most significant issues in the chapter, with an emphasis on concepts that can be confusing or techniques that can cause difficulties when used in practice. These are just short “nudges” to make sure you understand.

Test Yourself
This section contains five questions (sometimes compound questions) that allow you to make sure you have grasped the chapter’s major points. A short answer is usually all that is required for each question, although sometimes the answer can be longer. You should try to respond to each question as fully as you can before looking at the answer in appendix A.

Practice Cases
In addition to solving the problems in each chapter and answering the “Test Yourself” questions, you are asked to prepare an analysis of one or more practice cases at the end of each chapter. As with the problems contained in the chapter, you should attempt to analyze each practice case to the best of your ability before looking at the solution in appendix B. Each case covers some of the concepts discussed in the chapter and thus will give you an opportunity to test your knowledge of how the chapter’s content would be applied in a practical setting.

The practice cases usually are rather short; some might even be thought of as extended problems. In some instances, however, the cases are longer and more detailed. Much depends on the chapter’s content. The conventional distinction between an extended problem and a case is that a case usually presents a situation for which there is no single right answer. For many of the practice cases, there are right answers, although as you will see, there is sometimes more room for judgment than you might imagine initially.

Several practice cases are good candidates for relatively simple spreadsheet analysis, and you should use spreadsheet software in preparing your analyses of these cases. This approach not only will help you improve your spreadsheet skills but also will allow you to test alternative solutions more easily than if you had only written out the answer.

User Orientation
The book has a user orientation, focusing mainly on line managers and senior managers, and orienting the discussion to the decisions they make on a regular basis. Accounting details are discussed to the extent necessary for you to understand the concepts and techniques used in most
organizations, but the text does not cover exceptions to the rules or some of the possible variations on each traditional theme.

Organizational Focus

Many texts use manufacturing examples to illustrate accounting concepts and principles. This book uses manufacturing examples, where appropriate, but these examples—as well as all the problems and practice cases—are set in the context of organizations that are in some way associated with the health care sector. Nevertheless, most of the examples, problems, and practice cases are about service organizations.

Although most management accounting concepts are universal, meaning that the type of organization used to illustrate a point is relatively unimportant, the learning process is much easier when the examples are related to your area of interest. The examples, problems, and practice cases have been chosen with the hope that they will resonate with you because they deal with organizations with which you may be somewhat familiar.

To the Instructor

This book has been written principally for use in a one-semester, user-oriented course in management accounting in health care. Each chapter is designed to be covered in a week, ideally over two classes of 1.5 to 2 hours each. Clearly a great deal depends on the depth you wish to pursue and how quickly or slowly you wish to move through the course. (The material in this book has also been used in a half-semester course on management accounting for MBA students. In this instance, each chapter was covered in a single 2-hour class meeting.)

Students’ preparation for the first class session associated with a given chapter should include reading the chapter, engaging in the chapter’s interactive activities, answering the “Test Yourself” questions, and analyzing the chapter’s practice case or cases. Due to the interactivity, students will need considerably more time to read these chapters than they would if they were using a more traditional text. Moreover, they will need to spend time analyzing the practice cases.

It is sometimes useful to have an open class discussion after students have read a chapter and prepared the practice case or cases. This discussion can serve to clarify the chapter’s concepts and address any difficulties the students are having in using them.

After this class session, each remaining class for a given chapter can focus on a case or cases that you select that will require students to use
the chapter’s concepts and techniques. This way, the concepts are first clarified and then applied in the analysis of case situations. At the end of each chapter is a list of suggested cases for that chapter.

If you would like assistance in selecting cases for your course, you may contact The Crimson Press Curriculum Center (www.thecrimson group.org) and review its online catalogue of materials. In addition, the Harvard Business School Press has a catalogue and a Web site (www.hbsp.harvard.edu) that can help you in selecting cases to supplement each chapter. An instructor who adopts the book for his or her course may obtain a course packet of cases from The Crimson Press Curriculum Center at no charge.

**Case Method of Instruction**

Educators increasingly are recognizing the power of the case method in teaching management accounting. The value of the case method lies in its ability to put students in the middle of the action, requiring them to be analytical—to apply principles rather than just memorize or reiterate them. In this way, it prepares students for work in an environment where analysis, judgment, and attention to nuance increasingly are required for success.

**Changes for the Third Edition**

This edition of the text contains several changes from the second edition:

- The chapter on absorption costing has been eliminated. Its important techniques and concepts have been included in the chapter on activity-based costing (chapter 5).
- A new chapter (chapter 1) has been prepared that sets the stage for the rest of the book. It discusses the many challenges health care organizations will face in the next five to ten years, such as the aging of the population and the presence of many more individuals with chronic conditions. Management accounting concepts and techniques have therefore become even more important than they were in the past.
- The cases without solutions have been eliminated. Only practice cases remain. As mentioned earlier, instructors who adopt the book for a course may select as many cases as they wish from The Crimson Press Curriculum Center without a need to pay the normal copyright clearance fees. This results in a shorter book as well as increased flexibility for professors to choose cases that meet their pedagogical needs.
• Five “Test Yourself” questions have been included at the end of each chapter. These questions help students to reflect on the concepts and techniques contained in the chapter.

• Several new appendices have been added that allow students to pursue material that was not discussed directly in the chapter, such as pricing in nonprofit organizations or undertaking benefit-cost analysis in public-sector capital budgeting.

Organization of the Book

Exhibit P.1 contains the book’s learning objectives for each of its three major areas: full-cost accounting, differential cost accounting, and responsibility accounting. The book’s chapters move from the design of good cost measurement systems to the design of good cost control systems. Cost measurement can take place without cost control, but controlling costs requires an ability to measure them. Therefore, the chapters need to be read in the sequence presented. The overall theme for each chapter is discussed briefly in this section.

Chapter 1: Management Accounting and Health Care’s Impending Fiscal Crisis

Health care systems throughout the industrialized world are in trouble. As the population ages, and as people live longer, they will require increasing amounts of health care services, especially for the treatment of chronic conditions. In addition, individuals born shortly after the end of World War II (between 1945 and 1955) have now reached the age at which they will demand more services. Even nonelderly individuals who do not practice good health habits require greater care. This chapter discusses the details of this demographic and health behavior scenario. The inevitable conclusion is that if health care costs in industrialized countries are not better managed, there will be a fiscal crisis: either spending will skyrocket, or people will be denied needed care. Neither needs to happen if policymakers, managers, and physicians learn to understand their costs and manage them more appropriately. This chapter is, in effect, a call to action.

Chapter 2: Essentials of Full-Cost Accounting

“What did it cost?” is one of the trickiest accounting questions for all organizations, including those in health care. This chapter discusses the kinds of managerial decisions that are made in answering this question, as well
### EXHIBIT P.1 Management Accounting Learning Objectives

#### Full-Cost Accounting
- The meaning of such terms as cost object, cost center, direct costs, indirect costs, overhead, cost allocation methods, and cost systems
- The way costs can be allocated to help determine the cost of a particular product or service
- The distinction between mission (or revenue) centers and support centers
- The nature of the managerial choices inherent in a full-cost accounting system
- The concept of an overhead rate, for attaching a mission center’s costs to its cost objects
- The concepts of activity-based costing and cost drivers, including the use of multiple second-stage cost drivers

#### Differential Cost Accounting
- The rationale for the statement, “Different costs are used for different purposes”
- The distinction between full costs and differential costs, and when each should be used
- The nature of the factors that influence changes in cost, including the distinctions among fixed, variable, step-function, and semivariable costs
- The nature of alternative choice decision making, and the three major types of alternative choice decisions that most organizations make
- The concepts of unit contribution margin and total contribution, and their roles in alternative choice decision making
- The technique of cost-volume-profit analysis, how to prepare such an analysis, and its uses and limitations

#### Responsibility Accounting
- The definition of a responsibility center, the different responsibility center options, and the basis for choosing the most appropriate type of center
- The definition of a transfer price, and the role of transfer prices in a responsibility accounting system
- The phases of the management control process, and the characteristics of each phase
- The key elements in the budgeting phase of the management control process, and the relationship between budgeting and responsibility centers
- The meaning of the term flexible budget, and how it can be used in a responsibility accounting system
- The technique of variance analysis, and the different types of variances that can occur
- The uses and limitations of variance analysis, and the relationship between variance analysis and the reporting phase of the management control process
- Some of the difficulties involved in measuring nonfinancial (or programmatic) performance, and how to overcome them