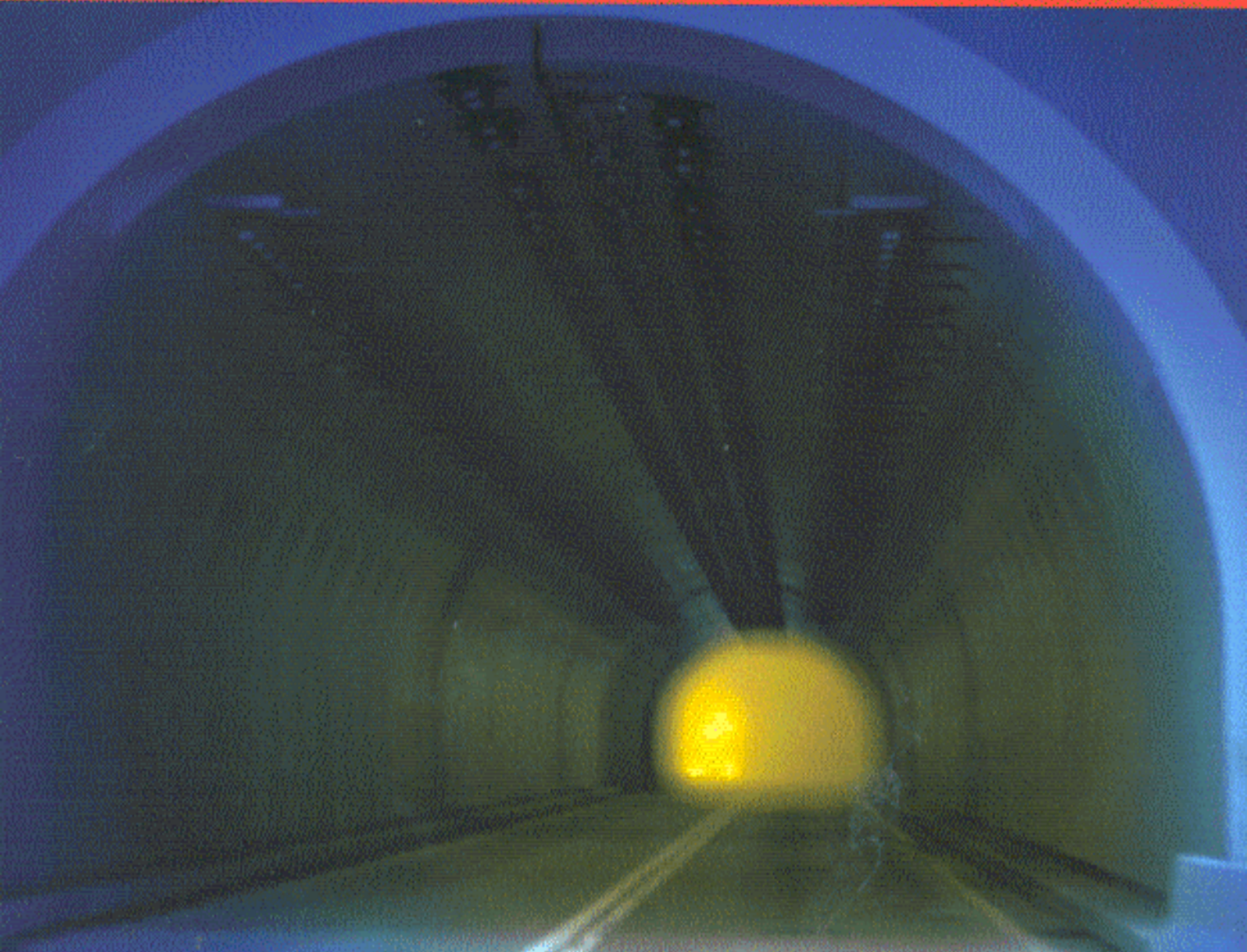


INTERNATIONAL EDITION



Edmonds Edmonds Tsay

# Fundamental Managerial Accounting Concepts

Second Edition

## Management Accounting: A Value-Added Discipline 2

Differences Between Managerial and Financial Accounting 4	Upstream and Downstream Costs 19
<i>Users</i> 4	Product Costs in Service Companies 19
<i>Level of Aggregation</i> 4	Cost Measurement in Managerial Reports 20
<i>Regulation</i> 6	Emerging Trends in Managerial Accounting 21
<i>Characteristics of Information</i> 6	<i>Total Quality Management</i> 21
<i>Time Horizon</i> 6	<i>Activity-Based Management</i> 22
Product Costing 6	<i>Value-Added Assessment</i> 22
Product Costs in Manufacturing Companies 7	<i>Just-in-Time Inventory</i> 22
<i>Tabor Manufacturing Company</i> 7	<i>Value Chain Analysis Across Companies</i> 25
<i>Cost per Unit</i> 8	A Look Back 25
<i>Costs Can Be Assets or Expenses</i> 8	A Look Forward 26
<i>Effect of Product Costs on Financial Statements</i> 9	Self-Study Review Problem 26
<i>Manufacturing Product Cost Summary</i> 13	Appendix 28
Importance of Cost Classification 13	Key Terms 29
<i>Marion Manufacturing Company</i> 13	Questions 29
<i>Practical Implications</i> 15	Exercises 29
Ethical Considerations 16	Problems 34
Common Features of Criminal and Ethical Misconduct 18	Analyze, Think, Communicate 45

## Cost Behavior, Operating Leverage, and Profitability Analysis 50

Fixed Cost Behavior 52	Cost Averaging 62
Operating Leverage 53	Use of Estimates in Real-World Problems 64
<i>Calculating Percentages</i> 54	High-Low Method of Estimating
<i>Economies of Scale</i> 54	Fixed and Variable Costs 65
<i>Risk and Reward Assessment</i> 54	Scattergraph Method of Estimating
Variable Cost Behavior 54	Fixed and Variable Costs 66
<i>Relationship Between Cost Behavior and Revenue</i> 55	A Look Back 68
Effect of Cost Structure on Profit Stability 56	A Look Forward 68
Determination of the Contribution Margin 57	Self-Study Review Problem 69
Measurement of Operating Leverage Using Contribution Margin 58	Key Terms 71
Use of Fixed Cost to Provide a Competitive Operating Advantage 59	Questions 71
Cost Behavior Summarized 60	Exercises 71
<i>The Relevant Range</i> 60	Problems 77
<i>Context-Sensitive Definitions of Fixed and Variable</i> 61	Analyze, Think, Communicate 92

## Analysis of Cost, Volume, and Pricing to Increase Profitability 98

- Determining the Contribution Margin per Unit 100
- Determining the Break-Even Point 100
- Using the Contribution Approach to Estimate the Sales Volume Necessary to Attain a Target Profit 102
- Using the Contribution Approach to Estimate the Effects of Changes in Sales Price 103
- Using the Contribution Approach to Estimate the Effects of Changes in Variable Costs 104
- Using the Contribution Approach to Estimate the Effects of Changes in Fixed Costs 106
- Using the Cost-Volume-Profit Graph 107
- Calculating the Margin of Safety 108
- Performing Sensitivity Analysis Using Spreadsheet Software 109
- Assessing the Pricing Strategy 110
- Using the Contribution Approach to Assess the Effect of Simultaneous Changes in CVP Variables 110
  - A Decrease in Sales Price Accompanied by an Increase in Sales Volume* 110
  - An Increase in Fixed Cost Accompanied by an Increase in Sales Volume* 111
  - A Simultaneous Reduction in Sales Price, Fixed Costs, Variable Costs, and Sales Volume* 111
- Calculating Cost-Volume-Profit (CVP) Analysis Using the Contribution Margin Ratio 112
- Performing Cost-Volume-Profit Analysis Using the Equation Method 113
- Operating Leverage and the Break-Even Point 114
- Recognizing Cost-Volume-Profit Limitations 115
  - A Look Back 115
  - A Look Forward 117
- Self-Study Review Problem 117
- Appendix 119
- Key Terms 120
- Questions 120
- Exercises 121
- Problems 124
- Analyze, Think, Communicate 134

## Relevant Information for Special Decisions 138

- The Decision Environment 140
- Relevant Information 140
  - Relevant (Differential) Revenues* 141
  - Relevant (Avoidable) Costs* 141
  - Relevance is an Independent Concept* 143
  - Relevancy of Opportunity Costs* 144
  - Context-Sensitive Relevance* 144
  - Relationship Between Relevance and Accuracy* 145
  - Quantitative Versus Qualitative Characteristics of Decision Making* 145
- Relevant Information and Special Decisions 145
  - Special Order Decisions* 145
  - Outsourcing Decisions* 148
  - Decisions to Eliminate Segments* 150
  - Summary of Relationships Between Avoidable Costs and the Hierarchy of Business Activity* 153
  - Equipment Replacement Decisions* 153
- A Look Back 155
- A Look Forward 156
- Self-Study Review Problem 156
- Appendix 158
- Key Terms 160
- Questions 161
- Exercises 161
- Problems 167
- Analyze, Think, Communicate 183

## Cost Accumulation, Tracing, and Allocation 188

- Use of Cost Drivers to Accumulate Costs 190
  - Estimated Versus Actual Cost* 190
  - Assignment of Cost to Objects in a Retail Business* 191

<i>Identification of Direct Versus Indirect Costs</i>	191	<i>Cost Allocation: The Human Factor</i>	205
<i>Cost Definitions—Independent and Context Sensitive</i>	192	<i>Using Cost Allocation in a Budgeting Decision</i>	205
<i>Allocation of Indirect Costs to Objects</i>	193	<i>Using Cost Drivers to Make Allocations</i>	206
<i>Selection of a Cost Driver</i>	195	<i>Choosing the Best Cost Driver</i>	207
<i>Behavioral Implications</i>	196	<i>Controlling Emotions</i>	207
<b>Effects of Cost Behavior on the Selection of the Most Appropriate Cost Driver</b>	197	<b>A Look Back</b>	207
<i>Using Volume Measures to Allocate Variable Overhead Costs</i>	197	<b>A Look Forward</b>	208
<i>Allocating Fixed Overhead Costs</i>	200	<b>Self-Study Review Problem</b>	208
<b>Allocation of Costs to Solve Timing Problems</b>	201	<b>Appendix</b>	210
<b>Establishment of Cost Pools</b>	202	<b>Key Terms</b>	214
<b>Allocation of Joint Costs</b>	203	<b>Questions</b>	214
<i>Joint Costs and the Issue of Relevance</i>	203	<b>Exercises</b>	214
<i>Relative Sales Value as the Allocation Base</i>	204	<b>Problems</b>	218
<i>By-Product Costs</i>	204	<b>Analyze, Think, Communicate</b>	228

## Cost Management in an Automated Business Environment: ABC, ABM, and TQM 232

<b>Development of a Single Companywide Cost Driver</b>	234	<i>Downstream Costs and Upstream Costs</i>	246
<b>Effects of Automation on the Selection of a Cost Driver</b>	235	<i>Employee Attitudes and the Availability of Data</i>	246
<i>Activity-Based Cost Drivers</i>	235	<b>Total Quality Management</b>	247
<i>Activity-Based Cost Drivers Enhance Relevance</i>	236	<i>Minimization of Total Quality Cost</i>	247
<b>Activity-Based Costing</b>	237	<i>Quality Cost Reports</i>	248
<i>Identification of Activity Centers</i>	237	<b>A Look Back</b>	249
<i>Comparison of ABC with Traditional Two-Stage Cost Allocation</i>	238	<b>A Look Forward</b>	250
<i>Types of Production Activities</i>	238	<b>Self-Study Review Problem</b>	250
<i>Cost Driver Selection</i>	243	<b>Key Terms</b>	253
<i>Use of the Information to Trace Costs to Product Lines</i>	243	<b>Questions</b>	253
<i>Under- and Overcosting</i>	245	<b>Exercises</b>	254
<i>Examining the Relevance of Allocated Facility-Level Costs</i>	245	<b>Problems</b>	258
		<b>Analyze, Think, Communicate</b>	272

## Planning for Profit and Cost Control 278

<b>The Planning Process</b>	280	<b>The Master Budget</b>	283
<b>Three Levels of Planning for Business Activity</b>	280	<b>Hampton Hams Budgeting Illustration</b>	283
<b>Advantages of Budgeting</b>	281	<i>Sales Budget</i>	284
<i>Planning</i>	281	<i>Inventory Purchases Budget</i>	286
<i>Coordination</i>	281	<i>Selling and Administrative Expense Budget</i>	288
<i>Performance Measurement</i>	281	<i>Cash Budget</i>	289
<i>Corrective Action</i>	282	<i>Pro Forma Income Statement</i>	292
<b>Consideration of the Human Factor</b>	282	<i>Pro Forma Balance Sheet</i>	293

<i>Pro Forma Statement of Cash Flows</i>	293
A Look Back	294
A Look Forward	295
Self-Study Review Problem	295
Key Terms	296

Questions	296
Exercises	297
Problems	302
Analyze, Think, Communicate	314

## Performance Evaluation 318

Preparation of Flexible Budgets	320
Determination of Variances for Performance Evaluation	321
<i>Sales Activity (Volume) Variances</i>	321
<i>Flexible Budget Variances</i>	323
The Human Factor Associated With Flexible Budget Variances	325
Establishment of Standards	326
<i>Need for Standard Costs</i>	327
Selecting Variances to Investigate	328
Manufacturing Cost Variances	329
<i>Price and Usage Variances</i>	330
<i>Variable Overhead Variances</i>	334

<i>Fixed Overhead Variances</i>	334
<i>Summary of Manufacturing Cost Variances</i>	336
General, Selling, and Administrative Cost Variances	336
A Look Back	338
A Look Forward	339
Self-Study Review Problem	340
Key Terms	341
Questions	341
Exercises	342
Problems	346
Analyze, Think, Communicate	360

## Responsibility Accounting 366

Decentralization Concept	368
Organization Chart	368
Responsibility Reports	369
<i>Controllability Concept</i>	369
<i>Management by Exception and Degree of Summarization</i>	369
<i>Qualitative Reporting Features</i>	370
<i>Responsibility Reports Illustrated</i>	371
Responsibility Centers	372
Managerial Performance Measurement	373
<i>Return on Investment</i>	373
<i>Residual Income</i>	377

<i>Transfer Pricing</i>	379
A Look Back	382
A Look Forward	383
Self-Study Review Problem	383
Key Terms	384
Questions	384
Exercises	384
Problems	388
Analyze, Think, Communicate	398

## Planning for Capital Investments 404

Capital Investment Decisions	406
<i>Time Value of Money</i>	406
Techniques for Analyzing Capital Investment Proposals	411
<i>Net Present Value</i>	412
<i>Internal Rate of Return</i>	412

Techniques for Measuring Investment Cash Flows	413
<i>Cash Inflows</i>	413
<i>Cash Outflows</i>	414
Techniques for Comparing Alternative Capital Investment Opportunities	414

<i>Net Present Value</i>	415
<i>Internal Rate of Return</i>	416
Relevance and the Time Value of Money	418
<i>Tax Considerations</i>	419
<i>Techniques That Ignore the Time Value of Money</i>	420
Real-World Reporting Practices	422
Postaudits	423
A Look Back	423

A Look Forward	424
Self-Study Review Problem	424
Key Terms	426
Questions	426
Exercises	427
Problems	430
Analyze, Think, Communicate	439

## Product Costing in Service and Manufacturing Entities 444

Cost Flow in Manufacturing Companies	446
Cost Flow in Service Companies	446
Manufacturing Cost Flow Illustrated	447
<i>Events Affecting Manufacturing Cost Flow in January</i>	448
<i>Flow of Overhead Costs</i>	449
<i>Manufacturing Overhead Account</i>	450
<i>Summary of Events Occurring in January</i>	454
<i>Events Affecting Manufacturing Cost Flow for February Through December</i>	454
<i>Analyses of Underapplied Overhead</i>	455
Preparation of Schedule of Cost of Goods Manufactured and Sold	457
Financial Statements	458

Motive to Overproduce	458
<i>Absorption Costing Versus Variable Costing</i>	458
<i>Variable Costing</i>	459
A Look Back	460
A Look Forward	461
Self-Study Review Problem	461
Key Terms	463
Questions	463
Exercises	463
Problems	468
Analyze, Think, Communicate	484

## Job-Order, Process, and Hybrid Cost Systems 488

Cost Systems	490
<i>Cost Systems and Type of Product</i>	490
<i>Job-Order Cost Flow</i>	490
<i>Process Cost Flow</i>	491
<i>Hybrid Accounting Systems</i>	492
<i>Documentation in a Job-Order Cost System</i>	492
<i>Job-Order Cost System Illustrated</i>	493
<i>Process Cost System Illustrated</i>	501
A Look Back	511
A Look Forward	511

Self-Study Review Problem 1	511
Self-Study Review Problem 2	512
Key Terms	513
Questions	513
Exercises	513
Problems	517
Analyze, Think, Communicate	529

## Financial Statement Analysis 534

Factors in Communicating Useful Information	536
<i>The Users</i>	536
<i>The Purpose of the Desired Information</i>	536
<i>Information Analysis</i>	536
Methods of Analysis	536

<i>Horizontal Analysis</i>	537
<i>Vertical Analysis</i>	539
<i>Ratio Analysis</i>	540
Measures of Debt-Paying Ability	541
<i>Liquidity Ratios</i>	541
<i>Solvency Ratios</i>	544

<b>Measures of Profitability</b>	<b>546</b>	<b>A Look Forward</b>	<b>553</b>
<i>Measures of Managerial Effectiveness</i>	546	<b>Self-Study Review Problem</b>	<b>554</b>
<i>Stock Market Ratios</i>	548	<b>Key Terms</b>	<b>555</b>
<b>Presentation of Analytical Relationships</b>	<b>551</b>	<b>Questions</b>	<b>556</b>
<b>Limitations of Financial Statement Analysis</b>	<b>551</b>	<b>Exercises</b>	<b>556</b>
<i>Different Industries</i>	552	<b>Problems</b>	<b>561</b>
<i>Changing Economic Environment</i>	552	<b>Analyze, Think, Communicate</b>	<b>575</b>
<i>Accounting Principles</i>	552		
<b>A Look Back</b>	<b>553</b>		

## Statement of Cash Flows 578

<i>Operating Activities</i>	580	<b>Statement of Cash Flows Presented Under the Indirect Method</b>	<b>594</b>
<i>Investing Activities</i>	580	<b>Consequences of Growth on Cash Flow</b>	<b>596</b>
<i>Financing Activities</i>	580	<i>Real-World Data</i>	597
<i>Noncash Investing and Financing Transactions</i>	580	<b>A Look Back</b>	<b>598</b>
<b>Reporting Format for Statement of Cash Flows</b>	<b>581</b>	<b>A Look Forward</b>	<b>599</b>
<b>Converting from Accrual to Cash-Basis Accounting</b>	<b>581</b>	<b>Self-Study Review Problem</b>	<b>599</b>
<i>Operating Activities</i>	582	<b>Key Terms</b>	<b>601</b>
<i>Investing Activities</i>	585	<b>Questions</b>	<b>601</b>
<i>Financing Activities</i>	585	<b>Exercises</b>	<b>602</b>
<b>Comprehensive Example Using the T-Account Approach</b>	<b>586</b>	<b>Problems</b>	<b>605</b>
<i>Preparation of Statement of Cash Flows</i>	588	<b>Analyze, Think, Communicate</b>	<b>616</b>
<i>Cash Flows from Operating Activities</i>	589		
<i>Cash Flows from Investing Activities</i>	592	<b>Glossary</b>	<b>623</b>
<i>Cash Flows from Financing Activities</i>	593	<b>Photo Credits</b>	<b>631</b>
<b>Presenting Information in the Statement of Cash Flows</b>	<b>594</b>	<b>Index</b>	<b>633</b>