Managerial Accounting

SEVENTH EDITION

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PREFACE

This edition of *Managerial Accounting* has been extensively revised. The objective, however, remains unchanged: to explain how accounting data can be interpreted and applied by managers in planning and controlling business activities and in solving problems. Attention is also given to the use of accounting data by investors and potential investors whenever appropriate.

The book is intended for a one-semester or a one-quarter course for students who expect to use accounting data in their future occupations. We believe that accounting majors will benefit from this material as much as students who are studying other fields of business and economics. Professional accountants must be as familiar with the use of accounting data as they are with its collection and presentation. It is important for accountants to know the *why* as well as the *how*. Students should use this book after having had a one-semester or two-quarter course in the introductory principles of accounting. Students who need a review of introductory accounting are referred to Appendices A and B, which deal concisely with the accounting cycle.

The textbook may be used for undergraduate courses, for MBA students, and for executive development programs. It is not an advanced level text but, instead, is intended to give the student an introductory level exposure to the use of accounting data in the management of a business or a not-for-profit enterprise.

While concepts and theories are discussed to some extent as an aid in understanding, the primary focus is on the pragmatic aspects. Illustrations and examples are given throughout the text to show how accounting data can be applied in solving management problems. It is expected that a student completing the course will have not just a theoretical background, but will be able to put the concepts to work in actual situations.

ORGANIZATION OF MATERIAL

The text consists of five distinct parts:

Part		Chapters
1	Introduction	1-2
П	Cost Determination and Control	3-7
Ш	Profit Planning	8-11
IV	Analysis and Decision Making	12-15
V	Interfaces of Financial and Managerial Accounting	16-18

Part I serves as an introduction. In Chapter 1, a distinction is made between financial and managerial accounting. The business organization and the accountant's role in the organization are discussed more completely than in earlier editions. The

concept of budgeting is introduced in the first chapter, but a more complete discussion is deferred to Chapters 10 and 11. Cost concepts and terminology are the subjects of Chapter 2. Special attention is also given to differences between service, merchandising, and manufacturing organizations.

Part II concentrates on costs—how they can be determined and identified with services and manufactured products. In addition, it explains the ways in which costs can be controlled. Chapters 3 and 4 concentrate on cost accumulation systems—job order costing and process costing, respectively. Process costing has been expanded to cover both the FIFO and average cost inventory methods. In addition, Chapter 4 is self-contained and may be omitted by instructors who do not wish to cover the process cost system. The concepts of standard cost accounting for direct materials and direct labor are covered in Chapter 5. Cost control applications are explained and illustrated. Chapter 6 applies standard costs to manufacturing overhead, covering service and governmental entities, and not-for-profit organizations, as well as manufacturing and merchandising organizations. Variances are explained and computed. The segregation of semivariable costs into variable and fixed components is the subject of Chapter 7. Emphasis is placed on accurate cost estimation because the costs are used in budgeting and cost control.

Part III covers profit planning. Cost-volume-profit relationships are explained in Chapter 8, along with the significance of operating leverage and margin of safety. The break-even concept and the factors that interact to increase profitability are discussed and illustrated. Variable costing (direct costing) is compared with absorption costing in Chapter 9. The advantages of both methods are presented, and the differences between them are illustrated more completely in this edition. Chapters 10 and 11 expand the conceptual and applied material on budgeting with a complete treatment of both operating and financial budgets. Cash budgeting, as a part of the financial budget, is emphasized more heavily than in previous editions.

Part IV concentrates on analysis and decision making. Chapter 12 goes more into the theory of decision making than was the case in earlier editions. Applications are given for pricing theory, product combinations, make or buy, and distress selling. An explanation is also given to show why cost allocations can be misleading in managerial applications. An introduction to capital investment analysis is given in Chapter 13, with a comprehensive treatment of the time value of money and the present value concept. Capital investment decisions are discussed at length in Chapter 14, with a treatment of accelerated depreciation methods and the problem of uncertainty. Problems of decentralized operations and transfer pricing are discussed in Chapter 15, with increased attention to service organizations in this edition.

Part V includes topics that are important to both financial and managerial accounting. Strategies for coping with the price level problem are important in managerial accounting, and the principle of financial measurement in dollars that have the same measuring standard is important in financial accounting. Chapter 16 deals with both price level problems and foreign exchange. The conversion problem can be handled in much the same way for making price level adjustments and foreign exchange adjustments. This edition goes into the managerial aspects of foreign exchange differences to a greater extent than earlier editions. In Chapter 17, the analysis of financial statements is covered more completely than in earlier editions.

Chapter 18 discusses the importance of net working capital flow and cash flow, and shows how both can be computed.

SPECIAL HIGHLIGHTS OF THE TEXT

Chapter 4	A Process Cost System	The previous edition's appendix to Chapter 3 has been expanded to an entire chapter on process cost accounting. The number of illustrations has been increased as well.
Chapters		
10 and 11	Budgets	These chapters offer an expanded treatment of both operating and cash budgets.
Chapter 16	Price Level and Foreign Exchange Problems	The price level conversion problem is simplified and related to foreign exchange conversions. Emphasis is on managerial strategies to minimize risk of loss on price level changes and changes in the rate of foreign exchange.
Chapter 18	Tracing the Flow of Net Working Capital and Cash	Increased attention is paid to cash flow analysis.

In addition to the revision of the chapters themselves, other features have been added. Excerpts from current periodicals, or articles detailing hypothetical business situations, have been given with each chapter. These articles serve to reinforce the link between the academic treatment of the subjects and the realities of the business world. A glossary has been added at the end of the text to help the student review key terms.

The end-of-chapter material has been extensively revised. The basic format is the same, with questions, exercises, and problems. Virtually all of the exercises and problems have been revised, and new ones have been added. Some problems have been identified as being more appropriate for solution by personal computers. Also, one or two cases have been added for many of the chapters. This provides a basis for interesting classroom discussion on points that are often controversial. (Student check figures are available for all chapter problems.)

SUGGESTIONS FOR SEQUENCING MATERIAL

Some chapters are designed so that they are partially or completely independent of other chapters. Chapter 4, for example, on process cost accounting, should come after Chapter 3, but later chapters do not depend upon Chapter 4 material. Chapter 7, on cost behavior and estimation, can be brought in before Chapters 5

and 6 on standard costing. Chapter 16, on price level and foreign exchange, can be introduced early in the course.

The course most likely will be conducted in a conventional way, with the chapters being covered in sequence. As an interesting variation, the course may begin with the problem of measuring in a unit of measurement that is always changing; that is, start with Chapter 16, the price level and foreign exchange chapter. Then, continue with Chapter 1 and the rest of the text in sequence. With students who need a review of basic accounting, it may be helpful to start with Appendices A and B. Also, in subject areas that have been expanded into two chapters, such as capital investment decisions, some instructors may want to assign both chapters as one unit. Or, if students are already familiar with present value concepts, Chapter 13 can be looked upon as a review chapter. The choice will depend to a large extent upon the background of the students and the time available for the course.

The authors acknowledge with gratitude the many helpful comments received from instructors and students who have used the sixth edition. Particular recognition is given for the help received from Professors Will H. Owen of Mississippi State University, James A. Largay III of Lehigh University, and Kenneth P. Sinclair of Lehigh University. Appreciation is also given to the many graduate students at Texas Tech University who critically reviewed the materials and made many suggestions for improvement. In addition we are grateful to Sharon M. Ruhf who typed and edited much of the manuscript.

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Carl L. Moore Lane K. Anderson Robert K. Jaedicke

CONTENTS

Part		**************************************
	Introduction	
1	MANAGERIAL ACCOUNTING AND THE MANAGEMENT PROCESS Need for Accounting Information Financial Accounting As Propolation of Financial Accounting 7	2 3
	Financial Accounting, 4; Regulation of Financial Accounting, 7; Managerial Accounting, 7; Differences Between Managerial and Financial Accounting, 9.	11
	Organization of the Firm The Objective of Management Planning and Control Decisions Classificate Decisions 14 Products 16 Processibility Appendix 17	11 13 14
	Classifying Decisions, 14; Budgets, 16; Responsibility Accounting, 17. Contribution of the Accountant Management Accountant, 19; Certificate in Management Accounting, 19.	19
2 '	COST CONCEPTS, CLASSIFICATIONS,	
	AND INCOME MEASUREMENT Nature of Cost	26 28
	Cost Behavior Relevant Range, 29; Variable Costs, 29; Fixed Costs, 30; Semivariable Costs, 32; Step Costs, 32.	29
	Costs for Planning Differential Costs, 34; Sunk Costs, 35; Opportunity Costs, 36; An Illustration of Decision-Making Costs, 38.	34
	Costs and Control Direct and Indirect Costs, 41; Cost Allocations, 41; Controllable and Noncontrollable Costs, 43; Cost Reports, 44; Some Difficulties with	39
	Cost Reports, 46; Control Features, 48. Income Measurement	49

Merchandise Cost Flow, 49; Manufacturing Cost Flow, 50; Period Cost, 51; Product Cost, 52; The Cost Elements, 52; The Costing Procedure,

53; Cost Flow in Service Organizations, 54.

7	Cost Determination and Control	
3	JOB ORDER OR SPECIAL PROJECT COSTING The Job Order Cost System Costing Direct Materials and Direct Labor, 79; Cost of Providing Services, 83; Costing Factory Overhead, 84.	76 79
	The Concept of Capacity A Job Order Cost Illustration	89 90
4'	A PROCESS COST SYSTEM The Flow of Costs The Cost Elements, 117; The Production Report, 120.	115 117
	The Equivalent Unit Concept First-In, First-Out Inventory Cost Method, 123; Average Inventory Cost Method, 125.	123
	Accountability in Subsequent Departments First-In, First-Out Method, 127; Average Cost Method, 129.	126
	Different Equivalent Units Within a Department Lost Units	130 131
5'	MATERIALS AND LABOR COST CONTROL The Use of Standards Advantages of Standard Cost Accounting, 157; The Quality of Standards, 159; Revising the Standards, 161.	154 156
	Materials Standards and Control Materials Price Variance, 162; Accounting For a Materials Price Variance, 162; Materials Quantity Variance, 164; Accounting For a Materials Quantity Variance, 165; Materials Acquisition, 168; The Inventory Level, 168.	161
	Labor Standards and Control Labor Rate Variance, 170; Labor Efficiency Variance, 171; Payroll Accounting Procedures, 174; Additions to Labor Cost, 176; Incentives, 177.	169
	Appendix: Some Quantitative Methods—Materials and Labor Materials, 180; Labor, 185.	180
6"	OVERVIEW DOOR OOVER OF	
Y	OVERHEAD COST CONTROL Flexible and Static Budgets Spending Variance Defined, 208; Efficiency Variance Defined, 209.	205 207
	A Flexible Budget and Variances	209

	Variable Overhead Variances The Spending Variance, 211; The Efficiency Variance, 211; The	210
	Controllable Variance, 212. A Fixed Overhead Variance—Capacity Variance Plant Capacity and Control Nonmanufacturing Costs	213 214 217
	Merchandising and Service Entities, 218; Not-for-Profit and Governmental Entities, 219.	
77	COST BEHAVIOR AND ESTIMATION Another Look at Variable Costs	245 247
	Another Look at Fixed Costs Fixed Costs and a Relevant Range, 249; Fixed Costs and Current Trends, 250.	248
	Semivariable Cost Segregation The Visual Fit, 252; The High-Low Point Method, 253; Least Squares Method, 255.	252
	Control Limits Normal Distribution, 257; Checking Some Inferences, 259.	256
	Correlation The r ² Test, 263; Multiple Regression, 267.	261
Part	V	
	rofit Planning	
	COST, VOLUME, PROFIT RELATIONSHIPS Break-Even Analysis A Desired Profit Before Tax, 291; A Desired Profit After Tax, 291; The	288 290
3 P	COST, VOLUME, PROFIT RELATIONSHIPS Break-Even Analysis A Desired Profit Before Tax, 291; A Desired Profit After Tax, 291; The Break-Even Chart, 292; Curvature of Revenue and Cost Lines, 293. The Profit-Volume Graph Sales Volume, 295; Variable Costs, 296; Price Policy, 298; Fixed Costs,	
3 P	COST, VOLUME, PROFIT RELATIONSHIPS Break-Even Analysis A Desired Profit Before Tax, 291; A Desired Profit After Tax, 291; The Break-Even Chart, 292; Curvature of Revenue and Cost Lines, 293. The Profit-Volume Graph Sales Volume, 295; Variable Costs, 296; Price Policy, 298; Fixed Costs, 301; Current Emphasis on Fixed Costs, 302. Operating Leverage Operating Leverage with High Fixed Cost, 306; Operating Leverage in	290
3 P	COST, VOLUME, PROFIT RELATIONSHIPS Break-Even Analysis A Desired Profit Before Tax, 291; A Desired Profit After Tax, 291; The Break-Even Chart, 292; Curvature of Revenue and Cost Lines, 293. The Profit-Volume Graph Sales Volume, 295; Variable Costs, 296; Price Policy, 298; Fixed Costs, 301; Current Emphasis on Fixed Costs, 302. Operating Leverage Operating Leverage with High Fixed Cost, 306; Operating Leverage in a Declining Market, 306. Margin of Safety	290294303307
3 P	COST, VOLUME, PROFIT RELATIONSHIPS Break-Even Analysis A Desired Profit Before Tax, 291; A Desired Profit After Tax, 291; The Break-Even Chart, 292; Curvature of Revenue and Cost Lines, 293. The Profit-Volume Graph Sales Volume, 295; Variable Costs, 296; Price Policy, 298; Fixed Costs, 301; Current Emphasis on Fixed Costs, 302. Operating Leverage Operating Leverage with High Fixed Cost, 306; Operating Leverage in a Declining Market, 306.	290294303
3 8 P	COST, VOLUME, PROFIT RELATIONSHIPS Break-Even Analysis A Desired Profit Before Tax, 291; A Desired Profit After Tax, 291; The Break-Even Chart, 292; Curvature of Revenue and Cost Lines, 293. The Profit-Volume Graph Sales Volume, 295; Variable Costs, 296; Price Policy, 298; Fixed Costs, 301; Current Emphasis on Fixed Costs, 302. Operating Leverage Operating Leverage with High Fixed Cost, 306; Operating Leverage in a Declining Market, 306. Margin of Safety The Sales Mix Short-Term and Long-Term Plans	290 294 303 307 308 311
3 P	COST, VOLUME, PROFIT RELATIONSHIPS Break-Even Analysis A Desired Profit Before Tax, 291; A Desired Profit After Tax, 291; The Break-Even Chart, 292; Curvature of Revenue and Cost Lines, 293. The Profit-Volume Graph Sales Volume, 295; Variable Costs, 296; Price Policy, 298; Fixed Costs, 301; Current Emphasis on Fixed Costs, 302. Operating Leverage Operating Leverage with High Fixed Cost, 306; Operating Leverage in a Declining Market, 306. Margin of Safety The Sales Mix	290 294 303 307 308

Contents

ix

	Absorption and Variable Costing Compared A Balance of Sales and Production, 337; Sales and Production Out of Balance, 339; Income Reported Under Absorption and Variable Costing, 341; Profits and Inventory, 344; Emphasis on Production or Sales, 345.	335
	Advantages and Disadvantages of Variable Costing The Advantages of Variable Costing, 345; The Disadvantages of Variable Costing, 346; Variable Costing in Planning and Decision Making, 347; Variable Costing and Budget Variances, 349.	345
10	BUDGETING FOR OPERATIONS	374
	Budgeting Relationship Between Planning and Budgeting, 376; Goals and Objectives, 376; Levels of Planning, 376; Advantages of Budgeting, 377; The Budget Period, 379; The Timing Concept, 380; Preparation of the Budgets, 380.	376
	Master Budget — An Overview Master Budget For a Manufacturer, 382; Master Budget For a Nonmanufacturing Company, 386.	382
	Compiling the Operating Budget Sales Forecasting, 387; Bases for Sales Forecasts, 388; A Sales Budget Illustration, 389; Sales and Production, 390; Inventories and Production, 391; The Production Budget Illustrated, 392; The Manufacturing Cost Budget, 393; The Selling Expense Budget, 399; The General and Administrative Expense Budget, 400; Research and Development Expense Budget, 401; The Budgeted Income Statement, 402.	387
	Probabilistic Budgeting Approaches to Setting Dollar Amounts Input/Output Approach, 408; Incremental Approach, 409; Minimum	405 408
	Level Approach, 409. Budgetary Control Behavioral Side of Budgeting Top Management Support, 412; Management Expectations, 412; Budgetary Slack, 412.	410 410
11	FINANCIAL BUDGET AND OTHER	
	BUDGETING APPROACHES Cash Management Operating Cash, 439; Accommodation Cash, 439; Excess Cash, 440; Planning and Control, 440.	437 439
	Cash Budget The Cash Receipts Budget, 441; The Cash Payments Budget, 443; Summary Cash Budget, 443; Combined Cash Budget, 446.	441
4 348	The Budgeted Balance Sheet	448

Contents

	Budget Work Sheet Budgeted Statement of Changes in Financial Position Other Approaches to Budgeting Project Budgets, 452; Zero-Base Budgeting, 453; Planning, Programming, and Budgeting System, 455; The Use of Budgets, 455. Financial Planning Models Defining the Financial Planning Model, 456; Elements of the Model, 457; Structuring the Interrelationships, 458; Availability of Financial Planning Models, 460.	448 451 452 456
art		
	nalysis and Decision Making	
12	ACCOUNTING DATA FOR MANAGERIAL DECISIONS Framework for Decision Making Defining the Problem, 484; The Decision Rule, 485; The Available Alternatives, 486; The Consequences of Actions, 486; Importance of Prediction, 486; Identification of Alternatives, 487; Relevant Data, 487; The Form of Analysis, 491; Choosing the Best Alternative, 494;	482 484
	The Decision, 494. Short-Term Decisions Combination Decisions, 495; Make or Buy, 495; Process or Sell, 497; Elimination of a Product Line, 498; Product Combinations, 499. The Pricing Decision Price Based on Full Cost, 505; Variable Cost Pricing, 509; Outside Influences on Price, 512.	495 505
13	CAPITAL INVESTMENT DECISIONS—I The Time Value of Money Future Value of Money, 543; Present Value of Money, 545; The Present Value of a Series of Future Cash Flows, 547; Comparison of Present Value and Future Value of a Series of Cash Flows, 549; Present Value with Cash Flow at the Beginning of the Period, 550. Present Value Analysis Applied Financial Decision Examples, 551; Approximation of the Interest Rate, 556; A Simple Capital Investment Example, 556; Capital Investments	540 543
14	in Not-for-Profit Organizations, 557. CAPITAL INVESTMENT DECISIONS—II Comparison of Capital Investment Decisions with Decisions Not Involving Capital Investment Significance of Capital Investment Decisions	571 573 575

xi

Contents

	The Capital Budgeting Process	576
	Proposal Identification, 576; Economic Evaluation of Alternatives, 578;	
	Follow-Up and Post Audit, 580.	
	Economic Evaluation Techniques	581
	Payback Method, 581; The Discounted Rate of Return Method, 583;	
	The Net Present Value Method, 585.	
	Refining the Investment	586
	Avoidable Costs, 587; Additional Investment in Current Assets, 587;	300
	Net Proceeds From the Sale of Other Properties, 588.	
	Income Tax Effects	500
17:5	Depreciation, 589; Tax Advantage of Accelerated Depreciation, 592;	589
	Depreciation Deductions Under the Tax Law, 593; Immediate Expensing	
	of Assets, 597; Tax Options, 598; Illustration of Tax Effects, 598.	
	Incremental Returns	601
	Complexities in Capital Budgeting Decisions	603
	Ranking Investments, 604; Problems of Uncertainty, 605; Cost of	
	Capital, 606.	
15	MANA CERTAL CONTROL AND DECYCLOS AND DECYCLO	
	MANAGERIAL CONTROL AND DECISION MAKING	5-94 (CC) - CC
	IN DECENTRALIZED OPERATIONS	626
	Responsibility Centers	628
	Advantages of Decentralization	630
	The Criteria Needed for a Control System	633
	Return on Investment	635
	Profit Index, 635; Determining Division Investment, 640; Additional	
	Problems with ROI, 642; Controlling the ROI, 645.	
	Residual Income	647
	Control Systems in Service Organizations	649
Br.	The Intracompany or Transfer Pricing Problem	650
	Transfer Prices, 652; Transfer Prices for Decision Making—A System	030
	of Information and Communication, 658.	
	The Evaluation Criterion or Standard	664
	The Dymantion Official of Standard	004
rt		
.	(T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
int Int	erfaces of Financial and Managerial Accounting	
1.6		
10	PRICE LEVEL AND FOREIGN EXCHANGE	
Diff.	PROBLEMS	690
114	Price Level Conversions	692
	The Character of Assets and Equities, 693; More Recent Costs Matched	0,2
	Against Revenues, 695; Illustration—Historical Cost/Constant Dollar	
	Statements, 697; Managerial Policy and Price Level, 701.	
	Managerial Policy and Foreign Exchange	703
	Hedging Operations, 704; Debt Policy—Foreign Exchange, 704;	103
	Investment Policy, 705.	

shapping accompanies of the control		
17	ANALYSIS OF FINANCIAL STATEMENTS Common-Size Statements Rate-of-Return Concept Rate of Return — Assets, 732; The Management of Assets, 735; Leverage, 740. Earnings and Market Value of Stock Fully Diluted Earnings Per Share, 744; Dividend Policy, 745. Liquidity and Safety The Management of Working Capital, 745; The Equity Relationships, 750; Net Income and Fixed Charges, 750. Some Hazards of Analysis	728 730 732 743 745
18		no constant
10	TRACING THE FLOW OF NET WORKING CAPITAL AND CASH Description and Evaluation of the Statements The Significance of Net Working Capital Flows Net Working Capital Flows, 778; A Comprehensive Illustration— Sources and Uses of Net Working Capital, 782; Statement of Changes in Financial Position, 787; The Demand For Net Working Capital, 788. Cash Flow Cash and Operations, 792; Analysis of Other Current Items, 796; A Statement of Cash Flow, 797; Simplified Cash Flow from Operations, 797.	774 776 777 790
	APPENDIX A—AN OVERVIEW OF THE ACCOUNTING PROCESS	830
	APPENDIX B—THE ACCOUNTING CYCLE: PRACTICE PROBLEMS	872
	APPENDIX C—THE PRESENT VALUE CONCEPT	880

PART ONE INTRODUCTION



CHAPTER ONE

MANAGERIAL ACCOUNTING AND THE MANAGEMENT PROCESS

CHAPTER OBJECTIVES

After studying Chapter 1, you will be able to:

- Describe the groups who have a primary interest in the financial reports prepared under financial accounting and those who have an interest in managerial accounting information.
- Describe three conceptual frameworks used in managerial accounting for providing accounting information to managers.
- Enumerate and describe the basic differences between and similarities of financial accounting and managerial accounting.
- List the functions of the controller.
- Explain how the functions of management are carried out by planning decisions and control decisions.
- Describe how control can be accomplished through budgetary control and responsibility accounting.

Accounting is viewed as a profession of providing information about the economic activity of an organization. The objective of financial accounting is to organize accounting information for interested parties outside of the organization. Managerial accounting, on the other hand, focuses on the accounting information needs of the various levels of management within the organization. Although strict lines of distinction between the two approaches to accounting are not always essential, financial and managerial accounting concepts are reviewed primarily as separate branches in this chapter.

NEED FOR ACCOUNTING INFORMATION

Economic activity is represented by events transpiring in industry, state and local governments, federal government, foundations and institutes, and other not-for-profit organizations. As one can easily imagine, the variety of products and services provided by different organizations is extremely broad. For example, the following list represents just a sampling of what American industry makes available.

Goods and Services Provided by American Industry

Aerospace and defense

Air transportation

Apparel, shoes, and textiles Automotive equipment

Automotive equipment Ranks and thrifts

Banks and thrifts

Beverages Chemicals

Coal

Communication media

Computers and electronics

Construction

Electrical equipment

Electric utilities Financial services Food distributors Food processors

Health care

Heavy equipment

Industrial and office services

Insurance

Leisure and recreation

Metals Natural gas

Oil Packaging Paper Retailing

Surface transportation Telecommunications

Figure 1.1 Goods and Services Provided by American Industry

Almost every participant in economic activity uses accounting information of one kind or another. As shown in the following diagram these needs are met either through financial accounting or managerial accounting. Each branch of accounting reports to those parties most interested in the kinds of information provided.