

Contents

Prologue xxiii

To the Student Reader xxv

Ethics: The Most Fundamental Principle of Accounting xxvii

Business Organizations 19

Single Proprietorships 19

Partnerships 19

Corporations 19

The Balance Sheet Equation 20

Effects of Transactions on the Accounting Equation 20

Realization Principle 23

Important Transaction Effects 25

Statement of Cash Flows 26

Part One

Introduction 3

1 Accounting, an Introduction to Its Concepts 5

Introduction 5

What Is Accounting? 6

Accounting and Bookkeeping 6

Accounting and Computers 7

Why Study Accounting? 7

Accountancy as a Profession 7

The Work of an Accountant 8

Public Accounting 8

Private Accounting 9

Governmental Accounting 10

Financial Statements 10

The Income Statement 11

The Balance Sheet 12

Assets, Liabilities, and Owner's Equity 12

Generally Accepted Accounting Principles 13

How Accounting Principles Are Established 14

Understanding Generally Accepted Accounting Principles (GAAP) 17

Business Entity Concept 17

Cost Principle 17

Objectivity Principle 17

Continuing-Concern Concept 18

The Stable-Dollar Concept 18

Part Two

Processing Accounting Data 47

2 Recording Transactions 49

The Accounting Process Starts by Analyzing Economic Events 50

Business Transactions 50

Other (Internal) Events 50

Business Papers 51

Accounts 51

Balance of an Account 52

Accounts Commonly Used 53

Asset Accounts 53

Liability Accounts 54

Owner's Equity Accounts 55

The Ledger 56

Debit and Credit 56

Mechanics of Double-Entry Accounting 57

Transactions Illustrating the Rules of Debit and Credit 58

The Accounts and the Equation 62

Preparing a Trial Balance 62

The Evidence of Accuracy Offered by a Trial Balance 63
 Balance Column Accounts 64
 Transactions Should First Be Recorded in a Journal 65
 The General Journal 65
 Recording Transactions in a General Journal 66
 Posting Transaction Information 67
 Account Numbers 68
 Locating Errors 69
 Correcting Errors 69
 Bookkeeping Techniques 70

3 Adjusting the Accounts and Preparing the Statements 89

Need for Adjustments at the End of an Accounting Period 90
 Adjusting the Accounts 91
 Prepaid Expenses 91
 Depreciation 93
 Accrued Expenses 95
 Unearned Revenues 96
 Accrued Revenues 97
 The Adjusted Trial Balance 97
 Preparing Statements from the Adjusted Trial Balance 98
 The Adjustment Process 98
 Accrual Basis Accounting versus Cash Basis Accounting 101
 Disposing of Accrued Items 102
 Accrued Expenses 102
 Accrued Revenues 102
 Classification of Balance Sheet Items 103
 Current Assets 103
 Investments 105
 Plant and Equipment 105
 Intangible Assets 106
 Current Liabilities 106
 Long-Term Liabilities 106
 Owner's Equity on the Balance Sheet 106
 Single Proprietorships and Partnerships 106
 Corporations 107
 Alternative Balance Sheet Arrangements 107
 Identifying Accounts by Number 107
 Appendix A: Recording Prepaid and Unearned Items in Income Statement Accounts 109

4 The Work Sheet and Closing the Accounts of Proprietorships, Partnerships, and Corporations 133

Using a Work Sheet at the End of Each Accounting Period 134
 Preparing a Work Sheet 134
 Preparing Financial Statements from the Work Sheet 138
 Preparing Adjusting Entries from the Work Sheet 138
 Closing Entries 139
 Why Closing Entries Are Made 139
 Closing Entries Illustrated 141
 Closing Revenue Accounts 141
 Closing Expense Accounts 142
 Closing the Income Summary Account 142
 Closing the Withdrawals Account 144
 Temporary (Nominal) Accounts and Permanent (Real) Accounts 144
 Sources of Closing Entry Information 145
 The Accounts after Closing 145
 The Post-Closing Trial Balance 145
 Accounting for Partnerships and Corporations 145
 Partnership Accounting 145
 Corporate Accounting 145
 The Accounting Cycle 154
 Appendix B: Reversing Entries 155

5 Accounting for a Merchandising Concern 181

Revenue from Sales 182
 Gross Sales 182
 Sales Returns and Allowances 183
 Sales Discounts 183
 Periodic and Perpetual Inventory Systems 184
 Cost of Goods Sold, Periodic Inventory System 185
 Merchandise Inventories 185
 Cost of Merchandise Purchased 186
 Cost of Goods Sold 188
 Inventory Losses 188
 Income Statement of a Merchandising Company 189

Work Sheet of a Merchandising Company	190
<i>Account Titles Column</i>	190
<i>Unadjusted Trial Balance Columns</i>	191
<i>Adjustments Columns</i>	192
<i>Combining and Sorting the Items</i>	192
<i>Income Statement Columns</i>	192
Cost of Goods Sold on the Work Sheet	193
Completing the Work Sheet and Preparing Financial Statements	193
<i>Preparing the Income Statement</i>	194
<i>Preparing the Retained Earnings Statement</i>	194
<i>Preparing the Balance Sheet</i>	194
Adjusting and Closing Entries	194
Closing Entries and the Inventories	197
Other Inventory Methods	198
Multiple-Step and Single-Step Income Statements	198
Combined Income and Retained Earnings Statement	198
Debit and Credit Memoranda	198
Trade Discounts	200
Appendix C: The Adjusting Entry Approach to Accounting for Merchandise Inventories	201

Part Three

Accounting for Assets 227

6 Accounting for Cash 229

Internal Control	230
<i>Clearly Establish Responsibilities</i>	230
<i>Maintain Adequate Records</i>	230
<i>Insure Assets and Bond Key Employees</i>	231
<i>Separate Record-Keeping and Custody over Assets</i>	231
<i>Divide Responsibility for Related Transactions</i>	231
<i>Use Mechanical Devices Whenever Practicable</i>	232
<i>Perform Regular and Independent Reviews</i>	232
Computers and Internal Control	232
<i>Computers Reduce Processing Errors</i>	232
<i>Computers Allow More Extensive Testing of Records</i>	232
<i>Computerized Systems May Limit Hard Evidence of Processing Steps</i>	233
<i>Separation of Duties Must Be Maintained</i>	233

Internal Control for Cash	233
<i>Cash from Cash Sales</i>	233
<i>Cash Received through the Mail</i>	234
<i>Cash Disbursements</i>	234
The Voucher System and Control	235
<i>Purchase Requisition</i>	235
<i>Purchase Order</i>	236
<i>Invoice</i>	237
<i>Receiving Report</i>	237
<i>Invoice Approval Form</i>	237
<i>The Voucher</i>	238
The Voucher System and Expenses	240
The Petty Cash Fund	240
Petty Cash Fund Illustrated	241
Cash Over and Short	242
Reconciling the Bank Balance	243
<i>Need for Reconciling the Bank Balance</i>	245
<i>Steps in Reconciling the Bank Balance</i>	246
Illustration of a Bank Reconciliation	247
Other Internal Control Procedures	249
<i>Advantage of the Net Method</i>	249

7 Short-Term Investments and Receivables 269

Short-Term Investments	270
Credit Card Sales	272
Maintaining a Separate Account for Each Customer	274
Bad Debts	275
Matching Bad Debt Losses with Sales	275
Allowance Method of Accounting for Bad Debts	275
<i>Recording the Estimated Bad Debts Expense</i>	276
<i>Bad Debts in the Accounts and in the Financial Statements</i>	276
<i>Writing Off a Bad Debt</i>	277
Bad Debt Recoveries	278
Estimating the Amount of Bad Debts Expense	279
<i>Estimating Bad Debts by Focusing on the Income Statement</i>	279
<i>Estimating Bad Debts by Focusing on the Balance Sheet</i>	280
Direct Write-Off Method of Accounting for Bad Debts	282
<i>Direct Write-Off Mismatches Revenues and Expenses</i>	283
<i>The Materiality Principle</i>	283

Installment Accounts and Notes Receivable	283
Promissory Notes	284
Calculating Interest	284
Recording the Receipt of a Note	285
Dishonored Notes Receivable	286
Discounting Notes Receivable	287
<i>Contingent Liability</i>	288
<i>Full-Disclosure Principle</i>	289
Dishonor of a Discounted Note	290
End-of-Period Adjustments	291
<i>Collecting Interest Previously Accrued</i>	291
<i>Recording the Collection When Reversing Entries Are Used</i>	292

8 Inventories and Cost of Goods Sold 311

Matching Merchandise Costs with Revenues	312
Items to Include in Merchandise Inventory	312
Elements of Inventory Cost	313
Taking an Ending Inventory	313
Assigning Costs to Inventory Items	314
<i>Specific Invoice Prices</i>	314
<i>Weighted Average</i>	315
<i>First-In, First-Out</i>	315
<i>Last-In, First-Out</i>	316
<i>Comparison of Methods</i>	316
<i>Tax Effect of LIFO</i>	317
<i>The Consistency Principle</i>	318
Changing Accounting Procedures	318
Lower of Cost or Market	318
<i>Market Normally Means Replacement Cost</i>	319
<i>Inventory Should Never Be Valued at More than Its Net Realizable Value</i>	319
<i>Inventory Should Be Valued at Less than Net Realizable Value minus a Normal Profit Margin</i>	320
Principle of Conservatism	320
<i>Inventory Errors—Periodic System</i>	320
Perpetual Inventory Systems	321
Comparing Journal Entries under Periodic and Perpetual Inventory Systems	322
Subsidiary Inventory Records—Perpetual System	322
First-In, First-Out—Perpetual Inventory System	324

Last-In, First-Out—Perpetual Inventory System	324
The Difference between LIFO (Perpetual) and LIFO (Periodic)	324
The Retail Method of Estimating Inventories	325
<i>Estimating an Ending Inventory by the Retail Method</i>	326
<i>Using the Retail Method to Reduce a Physical Inventory to Cost</i>	326
<i>Inventory Shortage</i>	327
<i>Markups and Markdowns</i>	327
Gross Profit Method of Estimating Inventories	329

9 Plant and Equipment, Natural Resources, and Intangible Assets 347

Cost of a Plant Asset	348
Nature of Depreciation	349
Service (Useful) Life of a Plant Asset	350
Salvage Value	350
Allocating Depreciation	351
<i>Straight-Line Method</i>	351
<i>Units-of-Production Method</i>	351
Depreciation for Partial Years	353
Depreciation on the Balance Sheet	353
Recovering the Costs of Plant Assets	353
Revising Depreciation Rates	354
Accelerated Depreciation Methods	355
<i>Declining-Balance Method</i>	355
<i>Sum-of-the-Years'-Digits Method</i>	356
<i>Apportioning Accelerated Depreciation</i>	357
<i>Accelerated Depreciation for Tax Purposes</i>	357
Control of Plant Assets	359
Plant Assets of Low Cost	361
Ordinary and Extraordinary Repairs	361
Betterments	362
Capital and Revenue Expenditures	362
Plant Asset Disposals	363
<i>Discarding a Plant Asset</i>	363
<i>Discarding a Damaged Plant Asset</i>	363
<i>Selling a Plant Asset</i>	364
Exchanging Plant Assets	364
<i>Recognizing a Material Book Loss</i>	365
<i>Nonrecognition of a Book Gain</i>	365
<i>Tax Rules and Plant Asset Exchanges</i>	366
Natural Resources	368

Intangible Assets	368
<i>Patents</i>	369
<i>Copyrights</i>	369
<i>Leaseholds</i>	369
<i>Leasehold Improvements</i>	370
<i>Goodwill</i>	370
<i>Trademarks and Trade Names</i>	371
<i>Amortization of Intangibles</i>	371

Part Four

Accounting for Liabilities 397

10 Current and Long-Term Liabilities 399

The Definition and Classification of Liabilities	400
<i>Current and Long-Term Liabilities</i>	400
<i>Definite versus Estimated Liabilities</i>	400
Property Taxes Payable	401
Product Warranty Liabilities	402
Contingent Liabilities	403
<i>What Distinguishes Liabilities from Contingent Liabilities?</i>	403
<i>What Are Other Examples of Contingent Liabilities</i>	403
Short-Term Notes Payable	403
<i>Note Given to Secure a Time Extension on an Account</i>	403
<i>Borrowing from a Bank</i>	404
End-of-Period Adjustments	406
<i>Discount on Notes Payable</i>	406
<i>Accrued Interest Expense</i>	407
The Concept of Present Value	407
<i>Present Value Tables</i>	408
<i>Using a Present Value Table</i>	408
<i>Present Value of \$1 Received Periodically for a Number of Periods</i>	410
Interest Periods Less than One Year in Length	410
Exchanging a Note for a Plant Asset	411
Notes That Have an Unreasonable or No Stated Interest Rate	412
<i>Amortizing the Discount on a Note Payable</i>	413
Liabilities from Leasing	414
<i>How to Classify Leases</i>	414
<i>Accounting for an Operating Lease</i>	415
<i>Accounting for a Capital Lease</i>	416

Payroll Liabilities	418
<i>FICA Taxes</i>	418
<i>Employees' Federal Income Taxes</i>	418
<i>Other Deductions from Wages</i>	419
Payroll Records and Procedures	419
Employer's Payroll Taxes	419
<i>Employer's FICA Tax</i>	419
<i>Federal and State Unemployment Taxes</i>	420
<i>Recording the Employer's Payroll Taxes</i>	420
Tax Returns and Paying the Taxes	420
Employee (Fringe) Benefit Costs	421

11 Installment Notes Payable and Bonds 439

Installment Notes Payable	440
<i>Installment Payments of Accrued Interest plus Equal Amounts of Principal</i>	440
<i>Installment Payments That Are Equal in Total Amount</i>	441
Borrowing by Issuing Bonds	442
<i>Difference between Notes Payable and Bonds</i>	442
<i>Difference between Stocks and Bonds</i>	443
Why Issue Bonds instead of Stock	443
Characteristics of Bonds	444
<i>Serial Bonds</i>	444
<i>Sinking Fund Bonds</i>	444
<i>Registered Bonds and Bearer Bonds</i>	444
<i>Coupon Bonds</i>	444
<i>Secured Bonds and Debentures</i>	445
The Process of Issuing Bonds	445
<i>Accounting for the Issuance of Bonds</i>	445
Bonds Sold between Interest Dates	446
Bond Interest Rates	447
Bonds Sold at a Discount	447
<i>Amortizing the Discount</i>	448
Bonds Sold at a Premium	452
<i>Amortizing the Premium</i>	453
Accrued Interest Expense	454
Redemption of Bonds	455
Bond Sinking Fund	455
Restriction on Dividends due to Outstanding Bonds	457
Investments in Bonds	457
<i>Short-Term Investments in Bonds</i>	458
<i>Long-Term Investments in Bonds</i>	458
<i>Sale of Bonds by Investors</i>	458
Mortgages as Security for Notes Payable and Bonds	459

Part Five**Accounting for Owners'
Equity 473****12 Partnerships and
Corporations 475**

- Characteristics of Partnerships 476
 - Mutual Agency* 476
 - Unlimited Liability* 476
 - Limited Partnerships* 477
- Partnership Accounting 477
- Nature of Partnership Earnings 478
- Division of Earnings 478
 - Earnings Allocated on a Stated Fractional Basis* 478
 - Salaries and Interest as Aids in Sharing* 479
- Advantages of the Corporate Form 481
 - Corporations Are Separate Legal Entities* 481
 - Stockholders Are Not Liable for the Corporation's Debts* 481
 - Ownership Rights of Corporations Are Easily Transferred* 481
 - Corporations Have Continuity of Life* 481
 - Stockholders Do Not Have a Mutual Agency Relationship* 481
 - Ease of Capital Assembly* 481
- Disadvantages of the Corporate Form 482
 - Governmental Regulation* 482
 - Taxation* 482
- Organizing a Corporation 482
- Organization Costs 483
- Management of a Corporation 483
- Stock Certificates and the Transfer of Stock 484
 - Transfer Agent and Registrar* 484
- Authorization and Issuance of Stock 485
 - Sale of Stock for Cash* 486
 - Exchanging Stock for Noncash Assets* 486
- Par Value and Minimum Legal Capital 486
- Stock Premiums and Discounts 487
 - Premiums on Stock* 487
 - Discounts on Stock* 488
- No-Par Stock 488
- Sale of Stock through Subscriptions 489
 - Subscriptions Receivable and Stock Subscribed on the Balance Sheet* 490
- Rights of Common Stockholders 491

- Preferred Stock 491
 - Preferred Dividends* 492
 - Cumulative and Noncumulative Preferred Stock* 492
 - Disclosure of Dividends in Arrears in the Financial Statements* 493
 - Participating and Nonparticipating Preferred Stock* 493
- Why Preferred Stock Is Issued 494
- Convertible Preferred Stock 495
- Convertible Bonds 495
- Stock Values 496
 - Redemption Value of Callable Preferred Stock* 496
 - Market Value* 496
 - Book Value* 496

**13 Additional Corporate
Transactions; Reporting Income
and Retained Earnings; Earnings
per Share 517**

- Retained Earnings and Dividends 518
- Distributions from Contributed Capital 518
- Stock Dividends 518
 - Why Stock Dividends Are Distributed* 520
 - Amount of Retained Earnings Capitalized* 521
 - Stock Dividends on the Balance Sheet* 521
- Stock Splits 522
- Treasury Stock 522
- Purchase of Treasury Stock 523
 - Restricting Retained Earnings by the Purchase of Treasury Stock* 524
- Reissuing Treasury Stock 524
- Retirement of Stock 525
- Appropriations of Retained Earnings 526
- Income Statement Items Not Related to Continuing Operations 526
- Discontinued Operations 527
 - Separating Discontinued Operations on the Income Statement* 528
 - Separating the Results of Operating a Segment That Is Being Discontinued from the Gain or Loss on Disposal* 528
- Extraordinary Items 528

Changes in Accounting Principles	529
<i>The Consistency Principle Does Not Preclude Changes in Accounting Principles</i>	529
<i>Reporting Requirements for Changes in Accounting Principles</i>	528
Earnings per Share on the Income Statement	530
Prior Period Adjustments and the Statement of Retained Earnings	530
Changes in Accounting Estimates	531
Statement of Changes in Stockholders' Equity	531
Companies with Simple Capital Structures	532
<i>Calculating Earnings per Share When the Number of Common Shares Outstanding Does Not Change</i>	532
<i>Adjusting the Denominator for Sales or Purchases of Common Shares</i>	533
<i>Adjusting the Denominator for Stock Splits and Stock Dividends</i>	533
Companies with Complex Capital Structures	534
<i>Primary Earnings per Share</i>	535
<i>Fully Diluted Earnings per Share</i>	535
Presentations of Earnings per Share on the Income Statement	535

Part Six

Financial Statements, Interpretation and Modifications 557

14 Statement of Cash Flows 559

Why Cash Information Is Important	560
Statement of Cash Flows	560
<i>Direct Method of Presenting Cash Flows from Operating Activities</i>	560
<i>Indirect Method of Presenting Cash Flows from Operating Activities</i>	561
<i>Designing the Statement of Cash Flows (Direct Method)</i>	562
<i>Cash and Cash Equivalents</i>	562
Classifying Cash Transactions	563
<i>Operating Activities</i>	564
<i>Investing Activities</i>	564
<i>Financing Activities</i>	564
Noncash Investing and Financing Activities	565

Preparing a Statement of Cash Flows	566
<i>Analyzing the Cash Account</i>	566
<i>Analyzing Noncash Accounts to Determine Cash Flows</i>	567
Grover Company—A Comprehensive Example	569
<i>Operating Activities</i>	569
<i>Investing Activities</i>	573
<i>Financing Activities</i>	574
Preparing a Working Paper for a Statement of Cash Flows (Direct Method)	575
<i>Designing the Working Paper</i>	575
<i>Basic Steps to Prepare a Working Paper (Direct Method)</i>	577
<i>Entering the Analysis of Changes on the Working Paper</i>	578
Reconciling Net Income to Net Cash Provided (or Used) by Operating Activities	580
Appendix D: The Indirect Method of Calculating Net Cash Provided (or Used) by Operating Activities	581

15 Stock Investments, Consolidations, and International Operations 605

Stocks as Investments	606
Classifying Investments	606
Accounting for Long-Term Investments in Stock	607
<i>The Cost Method of Accounting for Stock Investments</i>	607
<i>Lower of Cost or Market</i>	609
<i>The Equity Method of Accounting for Common Stock Investments</i>	610
Parent and Subsidiary Corporations	611
Consolidated Balance Sheets	612
<i>Balance Sheets Consolidated at Time of Acquisition</i>	613
<i>Parent Company Does Not Buy All of Subsidiary's Stock and Pays More than Book Value</i>	614
Earnings and Dividends of a Subsidiary	617
Consolidated Balance Sheets at a Date after Acquisition	617
Other Consolidated Statements	618
The Corporation Balance Sheet	619
Accounting for International Operations	619
Exchange Rates between Currencies	619

Sales (or Purchases) Denominated in a Foreign Currency 619
 Consolidated Statements with Foreign Subsidiaries 622

16 Analyzing Financial Statements 637

Objectives of Financial Reporting 638
 Comparative Statements 639
 Analyzing and Interpreting Comparative Statements 640
 Calculating Percentage Increases and Decreases 642
 Trend Percentages 642
 Common-Size Comparative Statements 643
 Analysis of Short-Term Liquidity 645
 Current Ratio 646
 Acid-Test Ratio 647
 Accounts Receivable Turnover 647
 Days' Sales Uncollected 648
 Turnover of Merchandise Inventory 649
 Standards of Comparison 649
 Analysis of Long-Term Risk and Capital Structure 650
 Debt and Equity Ratios 650
 Pledged Plant Assets to Secured Liabilities 650
 Times Fixed Interest Charges Earned 651
 Analysis of Operating Efficiency and Profitability 651
 Profit Margin 651
 Total Asset Turnover 652

Return on Total Assets Employed 652
Return on Common Stockholders' Equity 653
Price-Earnings Ratios 653
Dividend Yield 654

Review of Financial Statement Ratios and Statistics for Analysis 654

Part Seven

Appendixes 673

E Special Journals 675

F Present and Future Values: An Expansion 695

G The Accounting Problem of Changing Prices 709

H Tyler Corporation: Financial Statements and Disclosures from the 1987 Annual Report 731

Index 761