

Contents

About the Authors iii

Preface v

Module 1 Framework for Analysis and Valuation 1-1

Focus Company: Under Armour 1-2

Step 1 Business Environment and Accounting 1-5

Review 1-1 1-6

Financial Statements: Demand and Supply 1-6

Demand for Information 1-7

Supply of Information 1-10

International Accounting Standards 1-11

Review 1-2 1-12

Review of Financial Statements 1-12

Balance Sheet 1-13

Income Statement 1-15

Statement of Stockholders' Equity 1-17

Statement of Cash Flows 1-18

Information Beyond Financial Statements 1-19

Review 1-3 1-20

Analyzing the Business Environment 1-20

Analyzing the Value-Chain 1-20

Five-Forces Analysis of Business Environment 1-20

SWOT Analysis of Business Environment 1-21

Analyzing Competitive Advantage 1-22

Review 1-4 1-23

Step 2 Adjusting and Analyzing Financial Data 1-24

Managerial Choices in Financial Reporting 1-24

Analysis of Return on Assets 1-25

Analysis of Return on Equity 1-26

Are Financial Data Relevant? 1-26

Review 1-5 1-28

Step 3 Forecasting Financial Numbers 1-28

Step 4 Business Valuation 1-29

Financial Statement Analysis in an

Efficient Capital Market 1-30

Analyzing Global Reports 1-30

Appendix 1A: Accessing SEC Filings 1-30

Guidance Answers 1-33

Assignments 1-33

IFRS Applications 1-41

Analysis Discussion Points 1-42

Ongoing Analysis Project 1-42

Solutions to Review Problems 1-43

Module 2 Review of Business Activities and Financial Statements 2-1

Focus Company: Apple 2-2

Interpreting a Balance Sheet 2-3

Assets 2-3

Liabilities and Equity 2-5

Review 2-1 2-11

Interpreting an Income Statement 2-12

Recognizing Revenues and Expenses 2-13

Reporting of Transitory Items 2-14

Analyzing the Income Statement 2-15

Review 2-2 2-16

Interpreting a Statement of Stockholders' Equity 2-16

Review 2-3 2-17

Interpreting a Statement of Cash Flows 2-17

Statement Format and Data Sources 2-17

Review 2-4 2-18

Articulation of Financial Statements 2-19

Retained Earnings Reconciliation 2-19

Financial Statement Linkages 2-19

Review 2-5 2-21

Analyzing Transactions and Adjustments 2-21

Four-Step Accounting Cycle 2-21

Financial Statement Effects Template 2-22

Accounting Cycle Step 1—Analyze Transactions
and Prepare Entries 2-23

Applying the Financial Statement Effects Template 2-23

Applying the Journal Entry and T-Account 2-24

Review 2-6 2-26

Accounting Cycle Step 2—Prepare Accounting

Adjustments 2-27

Prepaid Expenses 2-28

Unearned Revenues 2-28

Accrued Expenses 2-29

Accrued Revenues 2-29

Accounting Adjustments for Apple 2-30

Review 2-7 2-30

Accounting Cycle Step 3—Prepare Financial Statements 2-31

Review 2-8 2-31

Accounting Cycle Step 4—Close the Books 2-31

Review 2-9 2-32

Additional Information Sources 2-32

Form 10-K 2-32

Form 20-F and Form 40-F 2-34

Form 8-K 2-34

Analyst Reports 2-35

Credit Services 2-35

Data Services 2-35

Review 2-10 2-36

Analyzing Global Reports 2-36

Appendix 2A: FASB's Financial Statement Presentation
Project 2-37

Guidance Answers 2-37

Assignments 2-38

IFRS Applications 2-51

Analysis Discussion Points 2-51

Ongoing Analysis Project 2-52

Solutions to Review Problems 2-52

3

Module

Profitability Analysis and Interpretation 3-1

Focus Company: Intel 3-2

Return on Equity (ROE) 3-3

Review 3-1 3-4

ROE Disaggregation: DuPont Analysis 3-4

Review 3-2 3-6

Return on Assets and its Disaggregation 3-6

Analysis of Profitability and Productivity 3-7

Analysis of Profitability 3-8

Analysis of Productivity 3-9

Analysis of Financial Leverage 3-12

Review 3-3 3-14

Operating Focus on Financial Condition 3-14

Net Operating Assets (NOA) 3-15

Review 3-4 3-19

Operating Focus on Financial Performance 3-20

Net Operating Profit After Tax (NOPAT) 3-22

Review 3-5 3-24

Return on Net Operating Assets (RNOA) 3-24

Review 3-6 3-26

RNOA Disaggregation into Margin and Turnover 3-26

Net Operating Profit Margin 3-26

Net Operating Asset Turnover 3-26

Trade-Off between Margin and Turnover 3-27

Review 3-7 3-29

Analyzing Global Reports 3-30

Appendix 3A: Nonoperating Component of ROE 3-31

Review 3-8 3-35

Appendix 3B: Liquidity and Solvency Analysis 3-36

Review 3-9 3-42

Guidance Answers 3-42

Assignments 3-42

IFRS Applications 3-61

Analysis Discussion Points 3-64

Ongoing Analysis Project 3-65

Solutions to Review Problems 3-66

4

Module

Credit Risk Analysis and Interpretation 4-1

Focus Company: Home Depot 4-2

Market for Credit 4-3

Demand for Credit 4-3

Supply of Credit 4-4

Review 4-1 4-7

Credit Risk Analysis Process 4-7

Information for Credit Risk Analysis 4-8

Chance of Default 4-9

Loss Given Default 4-11

Review 4-2 4-13

Measuring Credit Risk 4-14

Adjusting Financial Information 4-14

Profitability Analysis 4-14

Coverage Analysis 4-16

Liquidity Analysis 4-20

Solvency Analysis 4-21

Review 4-3 4-23

Credit Ratings 4-25
 Importance of Credit Rating 4-26
 How Credit Ratings are Determined 4-27

Review 4-4 4-31

Predicting Bankruptcy Risk 4-31
 Altman Z-Score 4-31
 Application of Z-Score 4-32
 Bankruptcy Prediction Errors 4-32

Review 4-5 4-33

Appendix 4A: Credit Risk Analysis at Two Major NRSROs 4-34

Guidance Answers 4-37

Assignments 4-38

IFRS Applications 4-48

Analysis Discussion Points 4-51

Ongoing Analysis Project 4-51

Solutions to Review Problems 4-52

Analyze Deductions from Income 5-24
 Analyze Research and Development Expense 5-25
 Analyze Discontinued Operations 5-27

Review 5-6 5-29

Pro Forma Income Reporting 5-30
 Regulation G Reconciliation 5-30
 SEC Warnings about Pro Forma Numbers 5-31
 Disclosures and Market Assessments 5-32

Review 5-7 5-33

Analyzing Global Reports 5-34

Guidance Answers 5-34

Assignments 5-34

IFRS Applications 5-50

Analysis Discussion Points 5-52

Ongoing Analysis Project 5-52

Solutions to Review Problems 5-53

Module 5

Revenue Recognition and Operating Income 5-1

Focus Company: Pfizer 5-2

Analyzing Revenue 5-3
 Revenue Recognition Rules 5-4
 Complications of Revenue Recognition 5-5
 Performance Obligations Satisfied Over Time 5-6

Review 5-1 5-9

Analyzing Sales Allowances 5-10
 Accounting for Sales Allowances 5-10
 Reporting Sales Allowances 5-11
 Analysis of Sales Allowances 5-11

Review 5-2 5-12

Analyzing Unearned (Deferred) Revenue 5-13

Review 5-3 5-14

Foreign Currency Effects on Revenue 5-14
 Foreign Currency and Cash Flows 5-15
 Foreign Currency and Income 5-16
 Foreign Currency and Future Results 5-16

Review 5-4 5-17

Analyzing Accounts Receivable 5-17
 Aging Analysis of Receivables 5-18
 Accounting for Accounts Receivable 5-18
 Analysis of Accounts Receivable—Magnitude 5-19
 Analysis of Accounts Receivable—Quality 5-21

Review 5-5 5-23

Analyzing Expenses and Losses 5-24

Module 6

Asset Recognition and Operating Assets 6-1

Focus Company: Home Depot 6-2

Analyzing Inventory—Costing Methods 6-3
 Capitalization of Inventory Cost 6-3
 Inventory Cost Flows 6-4
 First-In, First-Out (FIFO) 6-5
 Last-In, First-Out (LIFO) 6-5
 Average Cost (AC) 6-6
 Financial Statement Effects of Inventory Costing 6-7

Review 6-1 6-8

Analyzing Inventory—Reporting 6-8
 Lower of Cost or Market (LCM) 6-8
 LIFO Reserve Adjustments to Financial Statements 6-9
 LIFO Liquidations 6-10

Review 6-2 6-12

Analyzing Inventory—Analysis Tools 6-13
 Gross Profit Analysis 6-13
 Days Inventory Outstanding and Inventory Turnover 6-14
 Days Payable Outstanding 6-15
 Cash Conversion Cycle 6-16

Review 6-3 6-17

PPE Assets—Capitalization and Depreciation 6-17
 Plant and Equipment 6-17
 Research and Development Facilities and Equipment 6-21

Review 6-4 6-21

PPE Assets—Sales, Impairments, and Restructuring 6-21

- Asset Sales 6-21
- Asset Impairments 6-23
- Restructuring Costs 6-24
- Review 6-5 6-28**
- PPE Assets—Analysis Tools 6-29**
 - PPE Turnover 6-30
 - PPE Useful Life 6-31
 - PPE Percent Used Up 6-31
- Review 6-6 6-32**
- Analyzing Global Reports 6-32**
- Guidance Answers 6-33**
- Assignments 6-34**
- IFRS Applications 6-45**
- Analysis Discussion Points 6-47**
- Ongoing Analysis Project 6-47**
- Solutions to Review Problems 6-48**

- Financial Statement Effects of Bond Repurchase 7-19
- Fair Value Disclosures 7-20
- Review 7-4 7-21**
- Analyzing the Quality of Debt 7-21**
 - What Are Credit Ratings? 7-22
 - What Determines Credit Ratings? 7-23
 - Verizon Credit Rating Example 7-24
 - Why Credit Ratings Matter 7-26
- Review 7-5 7-27**
- Analyzing Global Reports 7-27**
- Appendix 7A: Time Value of Money 7-27**
- Review 7-6 7-33**
- Guidance Answers 7-33**
- Assignments 7-34**
- IFRS Applications 7-47**
- Analysis Discussion Points 7-50**
- Ongoing Analysis Project 7-50**
- Solutions to Review Problems 7-51**

Module 7

Liability Recognition and Nonowner Financing 7-1

- Focus Company: Verizon 7-2**
- Analyzing Accrued Liabilities 7-3**
 - Accrued Liabilities Defined 7-4
 - Accruals for Contractual Liabilities—
 - Wages Payable Example 7-4
 - Accruals for Contractual Liabilities—
 - Deferred Revenue Example 7-5
 - Accruals for Contingent Liabilities Defined 7-5
 - Accruals for Contingent Liabilities—Warranties Example 7-5
- Review 7-1 7-8**
- Analyzing Short-Term Debt 7-9**
 - Reporting of Short-Term Debt 7-9
 - Current Maturities of Long-Term Debt 7-10
- Review 7-2 7-11**
- Analyzing Long-Term Debt—Pricing 7-11**
 - Pricing of Bonds Issued at Par 7-12
 - Pricing of Bonds Issued at a Discount 7-13
 - Pricing of Bonds Issued at a Premium 7-13
 - Effective Cost of Debt 7-13
- Review 7-3 7-15**
- Analyzing Long-Term Debt—Reporting 7-15**
 - Financial Statement Disclosure of Debt Issuance 7-15
 - Balance Sheet Reporting 7-16
 - Income Statement Reporting 7-17
 - Amortization of Discount 7-18
 - Amortization of Premium 7-18

Module 8

Equity Recognition and Owner Financing 8-1

- Focus Company: Johnson & Johnson 8-2**
- Stockholders' Equity Terms 8-3**
 - Stockholders' Equity Accounts 8-3
 - Statement of Stockholders' Equity 8-5
 - Preferred Stock 8-6
 - Common Stock 8-7
- Review 8-1 8-9**
- Stock Transactions 8-9**
 - Stock Issuance 8-9
 - Stock Repurchase (Treasury Stock) 8-10
- Review 8-2 8-13**
- Stock-Based Compensation 8-13**
 - Accounting for Stock-Based Compensation 8-15
 - Footnote Disclosures for Stock-Based Compensation 8-16
- Review 8-3 8-17**
- Cash Dividends 8-18**
 - Cash Dividend Disclosures 8-18
 - Dividend Payout and Yield 8-18
 - Cash Dividends Financial Effects 8-19
- Review 8-4 8-19**
- Stock Splits and Stock Dividends 8-20**
 - Stock Split 8-20
 - Stock Dividend 8-20

Review 8-5 8-21

Accumulated Other Comprehensive Income 8-22

AOCI Components 8-22

AOCI Disclosures and Interpretation 8-22

Review 8-6 8-24

Convertible Securities 8-24

Review 8-7 8-25

Earnings per Share (EPS) 8-26

Review 8-8 8-27

Analyzing Global Reports 8-27

Appendix 8A: Stock-Based Compensation: Reporting and Analyzing 8-29

Guidance Answers 8-32

Assignments 8-32

IFRS Applications 8-49

Ongoing Analysis Project 8-53

Solutions to Review Problems 8-53

9

Module

Intercorporate Entities 9-1

Focus Company: Google 9-2

Analyzing Intercorporate Investments 9-3

Passive Investments in Marketable Securities 9-4

Investments in Debt Securities 9-8

Review 9-1 9-9

Analyzing Equity Investments with Significant Influence 9-10

Accounting for Investments with Significant Influence 9-10

Equity Method Accounting and ROE Effects 9-12

Review 9-2 9-16

Analyzing Equity Investments with Control 9-16

Accounting for Investments with Control 9-17

Review 9-3 9-30

Analyzing Global Reports 9-30

Appendix 9A: Analyzing Derivatives 9-31

Review 9-4 9-36

Appendix 9B: Analyzing Equity Carve-Outs 9-36

Review 9-5 9-39

Guidance Answers 9-39

Assignments 9-40

IFRS Applications 9-55

Analysis Discussion Points 9-57

Ongoing Analysis Project 9-58

Solutions to Review Problems 9-59

10

Module

Analyzing Leases, Pensions, and Taxes 10-1

Focus Company: Southwest & FedEx 10-2

Analyzing Leases 10-3

Lessee Reporting of Leases 10-3

New Lease Accounting Rules 10-5

Footnote Disclosure of Leases 10-6

Capitalization of Operating Leases 10-6

Review 10-1 10-10

Analyzing Pensions 10-11

Reporting of Defined Benefit Pension Plans 10-12

Balance Sheet Effects 10-12

Income Statement Effects 10-14

Fair Value Accounting for Pensions 10-16

Footnote Disclosure—Pension Plan Assets and PBO 10-17

Footnote Disclosure—Future Cash Flows 10-19

Footnote Disclosure—Key Assumptions 10-20

Analysis Implications 10-21

Other Post-Employment Benefits (OPEB) 10-23

Review 10-2 10-24

Analyzing Income Taxes 10-25

Timing Differences Create Deferred Tax Assets and Liabilities 10-25

Disclosures for Income Taxes 10-28

Analysis of Income Tax Disclosures 10-30

Review 10-3 10-32

Analyzing Global Reports 10-33

Appendix 10A: Lease Capitalization Using a Calculator and Present Value Tables 10-34

Appendix 10B: Amortization Component of Pension Expense 10-36

Appendix 10C: Expanded Explanation of Deferred Taxes 10-37

Guidance Answers 10-39

Assignments 10-39

IFRS Applications 10-61

Ongoing Analysis Project 10-64

Solutions to Review Problems 10-65

11

Module

Forecasting Financial Statements 11-1

Focus Company: Procter & Gamble 11-2

Forecasting Process 11-3

Review 11-1 11-5

Forecasting the Income Statement	11-6
Review 11-2	11-8
Forecasting the Balance Sheet	11-9
Review 11-3	11-12
The Forecasted Cash Balance	11-12
Review 11-4	11-13
Forecasting Multiple Years Ahead	11-13
Review 11-5	11-15
Refining Financial Statement Forecasts	11-15
Company Guidance	11-15
Segment Data	11-17
Impact of Acquisitions	11-18
Impact of Divestitures	11-19
Reassessing Financial Statement Forecasts	11-19
Review 11-6	11-20
Appendix 11A: Forecasting the Statement of Cash Flows	11-20
Review 11-7	11-22
Appendix 11B: Parsimonious Method for Forecasting NOPAT and NOA	11-22
Review 11-8	11-23
Appendix 11C: Morgan Stanley's Forecast Report on Procter & Gamble	11-23
Assignments	11-45
IFRS Applications	11-67
Ongoing Analysis Project	11-68
Solutions to Review Problems	11-68

Module 12

Cost of Capital and Valuation Basics 12-1

Focus Company: NextEra Energy	12-2
Basics of Valuation	12-3
Payoffs from Equity and Debt Instruments	12-4
Steps in Stock Valuation	12-4
Intrinsic Value	12-5
Review of Time Value of Money	12-6
Valuation of a Debt Instrument	12-9
Valuation of an Equity Instrument	12-9
Estimating Cost of Capital	12-10
Diversifiable and Non-Diversifiable Risk	12-11
Review 12-1	12-11
Cost of Equity Capital Using the Capital Asset Pricing Model	12-12
Cost of Equity Capital Using a Multi-Factor Model	12-13
Review 12-2	12-14

Cost of Debt Capital	12-14
Review 12-3	12-16
Weighted Average Cost of Capital	12-16
Review 12-4	12-18
Dividend Discount Model	12-18
Recursive Process of Valuation	12-18
Framework of the Dividend Discount Model	12-19
Dividend Discount Model with Constant Perpetuity	12-19
Review 12-5	12-20
Dividend Discount Model with Increasing Perpetuity	12-20
Issues in Applying the Dividend Discount Model	12-21
Review 12-6	12-23
Appendix 12A: Estimating Cost of Equity Capital	12-23
Guidance Answers	12-28
Assignments	12-28
Analysis Discussion Points	12-34
Solutions to Review Problems	12-36

Module 13

Cash-Flow-Based Valuation 13-1

Focus Company: Procter & Gamble	13-2
Equity Valuation Models	13-3
Dividend Discount Model	13-3
Discounted Cash Flow Model	13-3
Residual Operating Income Model	13-4
Model Equivalency	13-4
Valuation Model Inputs	13-4
Review 13-1	13-5
Discounted Cash Flow (DCF) Model	13-6
DCF Model Structure	13-6
Steps in Applying the DCF Model	13-7
Illustrating the DCF Model	13-8
Extending the DCF Model	13-9
Analyzing Global Reports	13-14
Review 13-2	13-15
Appendix 13A: Procter & Gamble Financial Statements	13-15
Appendix 13B: Derivation of Free Cash Flow Formula	13-18
Appendix 13C: Deutsche Bank Valuation of Procter & Gamble	13-18
Guidance Answers	13-30
Assignments	13-30
Analysis Discussion Points	13-39
Ongoing Analysis Project	13-39
Solutions to Review Problems	13-40

Module 14

Operating-Income-Based Valuation 14-1

Focus Company: Procter & Gamble 14-2

Equity Valuation Models 14-3

- Dividend Discount Model 14-3
- Discounted Cash Flow Model 14-3
- Residual Operating Income Model 14-4
- Model Equivalency 14-4
- Valuation Model Inputs 14-4

Review 14-1 14-5

Residual Operating Income (ROPI) Model 14-6

- ROPI Model Structure 14-6
- Steps in Applying the ROPI Model 14-7
- Illustrating the ROPI Model 14-8
- Extending the ROPI Model 14-9

Review 14-2 14-10

Steady State in Valuation 14-11

- Multi-Year Forecast Precision 14-11
- Achieving Steady State 14-12
- Forecasting Steady State—An Illustration 14-12

Review 14-3 14-14

Managerial Insights from the ROPI Model 14-14

Assessment of Valuation Models 14-16

Analyzing Global Reports 14-17

Review 14-4 14-17

Appendix 14A: P&G Financial Statements 14-18

Guidance Answers 14-21

Assignments 14-21

Analysis Discussion Points 14-31

Ongoing Analysis Project 14-32

Solutions to Review Problems 14-33

Module 15

Market-Based Valuation 15-1

Focus Company: Dollar General 15-2

- Valuation Model using Market Multiples 15-3
- Application of the Model Using Market Multiples 15-4

Valuation Using Balance Sheet Multiples 15-5

- Valuation Using a Net Operating Asset (NOA) Multiple 15-6
- Valuation Using a Book Value (BV) Multiple 15-7

Review 15-1 15-8

Valuation Using Income Statement Multiples 15-9

- Valuation Using a Net Operating Profit After Tax (NOPAT) Multiple 15-9

- Valuation Using a Net Income (NI) Multiple 15-10
- Valuation Using Industry-Based Multiples 15-11
- Combining Estimates from Differing Multiples 15-12

Review 15-2 15-12

Selecting Comparables for Market Multiples 15-13

- Deriving Price-to-Book from Residual Operating Income Model 15-13
- PB Ratios in Relation to Profitability, Growth, and Risk 15-14
- Deriving Price-to-Earnings from Residual Operating Income Model 15-17
- PE Ratios in Relation to Profitability, Growth, and Risk 15-18

Review 15-3 15-19

Interpreting and Reverse Engineering

Market Multiples 15-19

- Interpreting and Reverse Engineering the PB Ratio 15-20
- Interpreting and Reverse Engineering the PE Ratio 15-21
- Perspective on Valuation Multiples and Fundamental Analysis 15-22

Review 15-4 15-23

Guidance Answers 15-23

Assignments 15-24

Analysis Discussion Points 15-34

Solutions to Review Problems 15-38

Appendix A

Compound Interest Tables A-1

Appendix B

Computing and Analyzing Cash Flows B-1

Focus Company: Starbucks B-2

Framework for Statement of Cash Flows B-3

- Relation Among Financial Statements B-3
- Statement of Cash Flows Structure B-4
- Operating Activities Preview B-7
- Investing Activities Preview B-8
- Financing Activities Preview B-9

Review B-1 B-9

Cash Flow from Operating Activities B-9

- Steps to Compute Net Cash Flow from Operating Activities B-10
- Java House Case Illustration B-12

Review B-2 B-16

Computing Cash Flows from Investing Activities B-17Analyze Remaining Noncash Assets **B-17**Java House Case Illustration **B-17****Review B-3 B-18****Cash Flows from Financing Activities B-18**Analyze Remaining Liabilities and Equity **B-18**Java House Case Illustration **B-18****Review B-4A B-20**Computing Cash Flows from Balance Sheet Accounts **B-20**Supplemental Disclosures for the Indirect Method **B-20****Review B-4B B-21****Analysis of Cash Flow Information B-22**Cash Flow Components **B-22**Cash Flow Patterns **B-23**Usefulness of the Statement of Cash Flows **B-26****Review B-5 B-28**Ratio Analyses of Cash Flows **B-28**Free Cash Flow **B-29****Review B-6 B-30****Appendix B1: Direct Method Reporting for the Statement of Cash Flows B-30**Review B-7 **B-33**Guidance Answers **B-33**Assignments **B-34**IFRS Applications **B-55**Solutions to Review Problems **B-56****Appendix C (Available on website)****Comprehensive Case C-1**Focus Company: Harley-Davidson **C-2****Appendix D****Chart of Accounts (with Acronyms) D-1**Glossary **G-1**Index **I-1**