## BRIEF CONTENTS

PART	T
TAIL	

The Nature and Scope of Marketing

Research

**Chapter 1** A Decision-Making Perspective on Marketing Research, 1

**Chapter 2** Marketing Research in Practice, 22

**Chapter 3** The Marketing Research Process, 40

**Chapter 4** Research Design and Implementation, 70

## PART II Data Collection

#### SECTION A

Secondary and Exploratory Research

**Chapter 5** Secondary Sources of Marketing Data, 102

**Chapter 6** Standardized Sources of Marketing Data, 128

**Chapter 7** Marketing Research on the Internet, 156

**Chapter 8** Information Collection: Qualitative and Observational Methods, 181

#### SECTION B

Descriptive Research

Chapter 9 Information from Respondents:

Issues in Data Collection, 217

Chapter 10 Information from Respondents:

Survey Methods, 233

Chapter 11 Attitude Measurement, 272

Chapter 12 Designing the Questionnaire, 303

#### SECTION C

Causal Research

Chapter 13 Experimentation, 331

#### SECTION D

Sampling

Chapter 14 Sampling Fundamentals, 363

**Chapter 15** Sample Size and Statistical Theory, 392

viii

#### PART III

#### **Data Analysis**

Chapter 16 Fundamentals of Data

Analysis, 422

**Chapter 17** Hypothesis Testing: Basic Concepts and Tests of Associations, 443

**Chapter 18** Hypothesis Testing: Means and Proportions, 462

#### PART IV

#### Special Topics in Data Analysis

**Chapter 19** Correlation Analysis and Regression Analysis, 500

**Chapter 20** Discriminant and Canonical Analysis, 532

Chapter 21 Factor and Cluster Analysis, 553Chapter 22 Multidimensional Scaling and

Conjoint Analysis, 583

Chapter 23 Presenting the Results, 610

#### PART V

#### **Applications**

**Chapter 24** Traditional Applications of Marketing Research: Product, Price, Distribution, and Promotion, 627

Chapter 25 Contemporary Applications of Marketing Research: Competitive Advantage, Brand Equity, Customer Satisfaction, and Total Quality Management, 665

Chapter 26 Emerging Applications of Marketing Research: Direct Marketing, Database Marketing; E-Commerce, and Relationship Marketing, 689

#### Appendix 1: Tables, 711

A-1. Standard Normal Probabilities, 711

**A-2.**  $\chi^2$  Critical Points, 712

A-3. F Critical Points, 714

**A-4.** *t* Critical Points, 717

A-5. Procedures for Conducting Univariate and Multivariate Analysis in SPSS, 718

A-6. Output of Select Tables in SPSS, 722

Glossary, 733

Index, 743

## **CONTENTS**

#### PART I

## THE NATURE AND RESEARCH

## CHAPTER 1 A Decision-Making Perspective on Marketing Research, 1

Learning Objectives, 1

Introduction, 1

A Push to Probe Buying Habits in Latino Homes, 1

Minute Maid Quits Trying to Free OJ, 2

Future Grocery Store: It's Smaller and a Big Challenge for Brand Marketers, 2

Role of Marketing Research in Managerial Decision Making, 3

Situation Analysis, 4 Strategy Development, 6 Marketing Program Development, 8 Implementation, 10

Factors that Influence Marketing Research Decisions, 11

Relevance, 11 Type and Nature of Information Sought, 11 Timing, 12 Availability of Resources, 12 Cost—Benefit Analysis, 12

Use of Marketing Research, 12

Does Marketing Research Guarantee Success?, 13

Ethics in Marketing Research, 13

The Sponsor's Ethics, 14 The Supplier's Ethics, 15 Abuse of Respondents, 16

The Respondent's Ethics and Rights, 17

International Marketing Research, 17

Summary, 19

Questions and Problems, 19

End Notes, 19

Case 1-1: Ethical Dilemmas in Marketing Research, 20

#### CHAPTER 2 Marketing Research in Practice, 22

Learning Objectives, 22

Information Systems, Decision Support Systems, and Marketing Research, 23

#### SCOPE OF MARKETING

Databases, 23 Decision Support Systems, 23 Applying Information Systems to Marketing Research, 23 Marketing Decision Support Systems, 26

Characteristics of a MDSS, 26 Database, 26

Reports and Displays, 27 Analysis Capabilities, 27

Models, 27 Gaining Insights from a MDSS, 29

Suppliers of Information, 30

Corporate/In-House Marketing Research, 30 Externo Suppliers of the Research Industry, 32 Type and Nature of Services, 34

Criteria for Selecting External Suppliers, 35

The International Marketing Research Industry, 36 Career Opportunities in Marketing Research, 36

Career Opportunities in Marketing Research, 36 Summary, 37

Questions and Problems, 38

End Notes. 38

Appendix: Marketing Research Jobs, 39

#### CHAPTER 3 The Marketing Research Process, 40

Learning Objectives, 40 Overview of the Marketing Research Process, 40

The Preliminary Stages of the Marketing Research Process, 42

Step 1—Research Purpose, 42 Step 2—Research Objective, 47 Step 3—Estimating the Value of

Information, 51
Planning a New HMO, 52

The International Marketing Research Process, 55

Framing Research Questions in an International Environment, 57

Summary, 59

Questions and Problems, 59

End Notes, 60

Appendix: The Value of Research Information Using Bayesian Decision Theory, 61

ix

Case 3-1: A VideOcart Test for Bestway Stores, 63
Case 3-2: Sperry/MacLennan Architects and
Planners, 64

Case 3-3: Phillips Electronics NV, 67

Case 3-4: Philip Morris Enters Turkey, 68

## CHAPTER 4 Research Design and Implementation, 70

Learning Objectives, 70

Research Approach, 70

Types of Research, 72 Detective Funnel, 74 Collection Methods, 77 Choosing a Research

Approach for the HMO Study, 77

Research Tactics and Implementation, 79

Measurement, 79 Sampling Plan, 79

Anticipating the Analysis, 79 Anaversus Cost and Time Involved, 80

Research Design, 80

#### PART II

#### DATA COLLECTIO

Analysis of Value

Data

## SECTION A: SECONDARY AND EXPLORATORY RESEARCH

## CHAPTER 5 Secondary Sources of Marketing Data, 102

Learning Objectives, 102

Secondary Data, 102

Uses of Secondary Data, 103

Benefits of Secondary Data, 104

Limitations of Secondary Data, 104

Internal Sources of Secondary Data, 105

Internal Records, 105 Using Internal Data

Effectively, 106 Customer Feedback, 106

Customer Database, 107

External Sources of Secondary Data, 107

Published Data Sources, 107 Computer-Retrievable Databases, 109 Accessing Computer-Retrievable

Databases, 112 Advantages of Computer-Retrievable

Methods, 112 Limitations of Computer-Retrievable Methods, 112

Census Data, 114

Understanding the Census, 114

Standard Industrial Classification System, 116

Appraising Secondary Sources, 117

Applications of Secondary Data, 118

Demand Estimation, 118 Monitoring the Environment, 119 Segmentation and Targeting, 119

Developing a Business Intelligence System, 121

Budgeting and Scheduling the Research Project, 80 Research Proposal, 82

Basic Contents of a Proposal, 83

Designing International Marketing Research, 85

Joseph International Bossess Design 97

Issues in International Research Design, 87

Determining Information Requirements, 87

Unit of

Analysis, 88 Construct, Measurement, Sample, and Analysis Equivalence, 88

Summary, 89

Questions and Problems, 89 End Notes, 90

Appendix: Errors in Research Design, 90 Case 4-1: Reynolds Tobacco's Slide-Box Cigarettes, 91

Case 4-2: California Foods Corporation, 95

#### Cases for Part I, 99

Case I-1: Clover Valley Dairy Company, 99

#### N

Sources of Secondary Data for International Marketing Research, 122

Problems Associated with Secondary Data in International Research, 122

Data Accuracy, 122 Comparability of Data, 123

Applications of Secondary Data in International

Research, 123 Summary, 124

Questions and Problems, 124

End Notes, 124 Case 5-1: Barkley Foods, 126

Case 5-2: Dell in Latin America?, 127

## CHAPTER 6 Standardized Sources of Marketing Data, 128

Learning Objectives, 128

Retail Store Audits, 129

Nielsen Retail Index, 129

Consumer Purchase Panels, 130

Advantages of Consumer Panels, 132 Limitations of Consumer Panels, 132

Scanner Funeis, 132
Scanner Services and Single-Source Systems, 133

Scanner-Based Audit Services, 133 Single-Source Systems, 136

Media-Related Standardized Sources, 141

Nielsen Television Index, 141 Arbitron Diary Panel,

142 Starch Scores, 143 Multimedia Services, 143

Applications of Standardized Sources of Data, 143 Measuring Product Sales and Market Share, 144 Measuring Advertisement Exposure and Effectiveness. Measuring Promotion Effectiveness, 144

Estimation and Evaluation of Models, 145

Summary, 145

Questions and Problems, 145 End Notes, 146

Case 6-1: Promotion of Rocket Soups, 147

Case 6-2: Kerry Gold Products, Ltd., 151

Case 6-3: Paradise Foods, 151

#### CHAPTER 7 Marketing Research on the Internet, 156

Learning Objectives, 156

What Is the Internet?, 157

Characteristics of the Internet, 159

WWW Information for Marketing Decisions, 160

The Internet and Marketing Research Today, 163

Primary Research, 164 Secondary Research, 168

Custom Search Service, 169

Agents, 170

Information Providers, 171 How to Search for

Information on the Web, 173 International Marketing Research, 173

The Internet and Marketing Research Developments, 176

Intranets, 176 Speed, 176 The Future of the

Internet, 177 Summary, 177

Questions and Problems, 177

End Notes, 178

Appendix: The Components of the Internet, 178

Case 7-1: Caring Children's Hospital, 182

#### CHAPTER 8 Information Collection: Qualitative and Observational Methods, 184

Learning Objectives, 184

Need for Qualitative Research, 184

Qualitative Research Methods, 185

Use of Computers in Qualitative Research, 186 Individual In-Depth Interviews, 187 Focus-Group

Discussions, 189 Projective Techniques, 197

Limitations of Qualitative Methods, 202

Observational Methods, 203

Direct Observation, 203 Contrived Observation, 203

Content Analysis, 204 Physical Trace

Measures, 204 Empathic Interviewing, 205

Humanistic Inquiry, 205 Behavior-Recording Devices, 205 Limitations of Observational Methods,

207

Recent Applications of Qualitative and Observational Methods, 207

Summary, 208

Questions and Problems, 209

End Notes, 210

Appendix: Myths of Qualitative Research: It's Conventional, But Is it Wisdom?, 211

Case 8-1: Mountain Bell Telephone Company, 213 Case 8-2: U.S. Department of Energy (A), 215

Case 8-3: Acura. 216

#### SECTION B: DESCRIPTIVE RESEARCH

#### CHAPTER 9 Information from Respondents: Issues in Data Collection, 217

Learning Objectives, 217

Information from Surveys, 217

Sources of Survey Error, 218

Nonresponse Errors Due to Refusals, 219 Inaccuracy in Response, 219 Interviewer Error, 222

Methods of Data Collection, 223

Factors Affecting the Choice of a Survey Method, 225

Sampling, 225 Type of Population, 225 Question Form. 225 Question Content, 226 Response

Costs, 226 Available Facilities, Rates, 226

Duration of Data Collection, 227 Ethical Issues in Data Collection, 228

Summary, 229

Questions and Problems, 229

End Notes, 230

Case 9-1: Essex Markets (A), 231

Case 9-2: More Ethical Dilemmas in Marketing

Research, 232

#### CHAPTER 10 Information from Respondents: Survey Methods, 233

Learning Objectives, 233

Collecting Data, 233

Personal Interviewing, 234 Telephone Interviewing, Mail Surveys, 242

Web Surveys, 249 Combinations of Survey Methods, 249 Trends in

Survey Research, 252 Choice of Survey Methods for HMO Study, 257

Surveys in the International Context, 258

Personal Interviews, 258 Telephone Interviews,

259 Mail Surveys, 259

Summary, 260

Questions and Problems, 261

End Notes, 262

Case 10-1: Project DATA: An Urban Transportation Study, 263

Case 10-2: Roland Development Corp., 269

CHAPTER 11 Attitude Measurement, 272

Learning Objectives, 272

What Are Attitudes?, 273 Cognitive or Knowledge Component, 273 Affective or

Liking Component, 273 Intention or Action

Component, 274 The Concept of Measurement and Scaling, 274

Properties of Measurement Scales, 274 Types of Attitude Rating Scales, 277

Single-Item Scales, 277 Multiple-Item Scales, 284

Continuous-Rating Scales, 287

General Guidelines for Developing a Multi-Item Scale, 289

Interpreting Attitude Scales, 290

Choosing an Attitudinal Scale, 292

Accuracy of Attitude Measurements, 293

Validity, 293 Reliability, 294 Sensitivity, 295 Generalizability, 295 Relevancy, 296

Scales in Cross-National Research, 296

Summary, 296

Questions and Problems, 297

End Notes, 298

Case 11-1: Wine Horizons, 299

Case 11-2: National Kitchens, 301

#### CHAPTER 12 Designing the Questionnaire, 303

Learning Objectives, 303

Planning What to Measure, 303

Translating Research Objectives into Information Requirements, 305

Formatting the Question, 305

Open-Response Questions, 306 Closed-Response Ouestions, 307 Using Both Open-Response and

Closed-Response Questions, 311

Question Wording: A Problem of

Communication, 311

Asking Sensitive Questions, 314

Sequence and Layout Decisions, 316

Order Bias: Does the Question Create the Answer?, 317

Pretesting and Correcting Problems, 319

Pretest Design, 319 Role of the Pretest, 321

Questionnaire Design for International Research, 321

Choosing the Question Format for Cross-National

Research, 321 Problems Faced in Wording Questions for International Research, 322

Summary, 324

Ouestions and Problems, 324

End Notes, 327

Case 12-1: Essex Markets (B), 328

Case 12-2: Smith's Clothing (A), 328

Case 12-3: Compact Lemon, 329

#### SECTION C: CAUSAL RESEARCH

#### CHAPTER 13 Experimentation, 331

Learning Objectives, 331

Descriptive versus Experimental Research, 332

What Are Causal Relationships?, 332

Descriptive Designs, 332

What Constitutes Causality?, 334

Direction of Causation Issue, 334

Conditions for

Limitations of

Valid Causal Inferences, 334

Issues in Experimental Research, 335
Basic Symbols and Notations, 335

Types of Experimental Designs, 337

Classical Designs, 337 Statistical Designs, 334

Laboratory and Field Experiments, 352

Threats to Experimental Validity, 352

Threats to Internal Validity, 353 Threats to External

Validity, 353

Guidelines for Conducting Experimental

Research, 354

Common Misuses of Experimental Research in Marketing, 356

Limitations of Experiments, 356

Cost, 356 Security, 357 Implementation

Problems, 357 Uncertain Persistency of Results, 358

Summary, 358

Questions and Problems, 359

End Notes, 360

Case 13-1: Evaluating Experimental Designs, 361

Case 13-2: Barrie Food Corporation, 362

#### SECTION D: SAMPLING

#### CHAPTER 14 Sampling Fundamentals, 363

Learning Objectives, 363

Sample or Census, 363

When Census Is Appropriate, 364 When a Sample Is Appropriate, 364 Error in Sampling, 364

Appropriate, 304 Error in Sumpling, 304

Sampling Process, 365

Determining the Target Population, 365 Determining the Sampling Frame, 367 Selecting a Sampling

Procedure, 370

\_\_\_\_\_

Probability Sampling, 371

Selecting the Probability Sample, 371 Multistage Design, 376

Nonprobability Sampling, 378

Judgmental Sampling, 378 Snowball Sampling, 379 Convenience Sampling, 379 Quota Sampling, 380

Determining the Sample Size, 381 Nonresponse

Problems, 381

Shopping Center Sampling, 383

Shopping Center Selection, 383 Sample Locations within a Center, 383 Time Sampling, 384

Sampling People versus Shopping Visits, 384

Sampling in the International Context, 385

Selecting the Sampling Frame, 385 Sampling

Procedure, 386 Summary, 387

Questions and Problems, 387

End Notes, 389

Case 14-1: Exercises in Sample Design, 390

Case 14-2: Talbot Razor Products Company, 390

## CHAPTER 15 Sample Size and Statistical Theory, 392

Learning Objectives, 392

Determining the Sample Size: Ad Hoc Methods, 392

Rules of Thumb, 392 Budget Constraints, 393 Comparable Studies, 393 Factors Determining

Sample Size, 393

#### PART III

#### DATA ANALYSIS

#### CHAPTER 16 Fundamentals of Data Analysis, 422

Learning Objectives, 422

Preparing the Data for Analysis, 423

Data Editing, 423 Coding, 424 Statistically

Adjusting the Data, 424

Strategy for Data Analysis, 427

Tabulation: Frequency Distribution, 428 Tabulation: Descriptive Statistics, 429 Difference between Means

or Percentages, 430

Cross-Tabulations, 431

Factors Influencing the Choice of Statistical

Technique, 433

Type of Data, 433 Research Design, 433

Assumptions Underlying Test Statistic, 435

An Overview of Statistical Techniques, 435

Presenting the Results, 439

Summary, 440

Questions and Problems, 440

End Notes, 441

Appendix, 442

## CHAPTER 17 Hypothesis Testing: Basic Concepts and Tests of Associations, 443

Learning Objectives, 443

The Logic of Hypothesis Testing, 444

An Illustrative Example, 444

Population Characteristics/Parameters, 394 Sample Characteristics/Statistics, 395

Sample Reliability, 396

Interval Estimation, 398

Sample Size Question, 399

Determining the Population Standard Deviation, 401

Proportions, 401

Coefficient of Variation, 402

Several Questions, 403

Stratified Sampling, 403

Multistage Design, 405 Sequential Sampling, 406

Summary, 406

Questions and Problems, 406

End Notes, 408

#### Cases for Part II, 409

Case II-1: Pacific Gas & Electric (A), 409 Case II-2: Currency Concepts International, 416

Steps in Hypothesis Testing, 445

Basic Concepts of Hypothesis Testing, 446

The Null and Alternative Hypotheses, 446 the Relevant Statistical Test and the Appropriate Probability Distribution, 446 Choosing the Critical

Value, 446

Cross-Tabulation and Chi-Square, 449

The Concept of Statistical Independence, 450 Chi-Square as a Test of Independence, 451 Measures of

Association for Nominal Variables, 454 The Chi-

Square Goodness-of-Fit Test, 457

Summary, 458

Questions and Problems, 459

End Notes, 459

Case 17-1: Medical Systems Associates: Measuring

Patient Satisfaction, 460

#### CHAPTER 18 Hypothesis Testing: Means and Proportions, 462

Learning Objectives, 462

Commonly Used Hypothesis Tests in Marketing Research, 463

Testing Hypothesis about a Single Mean, 463

Hypothesis Testing for Differences between Means, 466 Hypothesis Testing of Proportions, 469 Testing of Difference between Proportions, 470

The Probability-Values (p Values) Approach to Hypothesis Testing, 471

xiii

Effect of Sample Size and Interpretation of Test Results, 472

Relationship between Confidence Interval and Hypothesis Testing, 473

Analysis of Variance (ANOVA), 474

One-Factor Analysis of Variance, 475 Expanding the ANOVA Table. 478

Summary, 482

Questions and Problems, 482

#### PART IV

#### SPECIAL TOPICS IN

## CHAPTER 19 Correlation Analysis and Regression Analysis, 500

Learning Objectives, 500

Correlation Analysis, 501

Simple Correlation Coefficient, 502 Testing the Significance of the Correlation Coefficient, 504 Partial

Correlation Coefficient, 505

Regression Analysis, 505
Simple Linear Regression N

Simple Linear Regression Model, 506 Multiple
Regression, 514 Parameter Interpretation in Multiple
Regression, 518 Tests of Significance and Their
Interpretations, 519 Interactions, 523 Analyzing
Residuals, 523 Predictive Validity, 523

Regression with Dummy Variables, 524

Summary, 525

Questions and Problems, 526

End Notes, 528

Case 19-1: The Seafood Grotto, 529 Case 19-2: Ajax Advertising Agency, 530

Case 19-3: Election Research, Inc., 531

## CHAPTER 20 Discriminant and Canonical Analysis, 532

Learning Objectives, 532

Discriminant Analysis, 532

Objectives, 532 Basic Concept, 533 Methodology, 533 Group Assignment, 535 Comparing

Regression and Discriminant Analysis, 536

Application, 536 Estimation, 537 Determination

of Significance, 537 Interpretation, 537

Classification and Validation, 540
Multiple Discriminant Analysis, 541

Application, 541 Discussion of Results, 541

Summary of Discriminant Analysis, 544

Canonical Correlation Analysis, 545

Application, 545 Discussion of Results, 546

Summary of Canonical Correlation Analysis, 549

Questions and Problems, 549

End Notes, 484 Case 18-1: American Conservatory Theater, 484 Case 18-2: Apple Appliance Stores, 485

Cases for Part III. 488

Case III-1: The Vancouver Symphony Orchestra, 488 Case III-2: Pacific Gas & Electric (B), 494

Case III-3: Ralston Development Company, 496

#### DATA ANALYSIS

End Notes, 551 Case 20-1: Southwest Utility, 551

CHAPTER 21 Factor and Cluster Analysis, 553

Learning Objectives, 553

Factor Analysis, 554 Methodology, 554 A Geometric Purpose, 554

Principal Component Analysis, Perspective, 554 Common Factor Analysis, 565

Summary of Factor Analysis, 565

Cluster Analysis, 566 Problem Definition, 567 Measures of Similarity, 567 Clustering Approach, 568 Number of Clusters, 573

Evaluating and Profiling the Clusters, 575 Statistical Inference, 576 Summary of Cluster Analysis, 576

Questions and Problems, 577 End Notes, 578 Case 21-1: Store Image Study, 578

Case 21-2: Behavioral Research, 580

CHAPTER 22 Multidimensional Scaling and Conjoint Analysis, 583

Learning Objectives, 583

Multidimensional Scaling, 583

Attribute-based Approaches, 584

Factor Analysis, 584 Discriminant Analysis, 585

Comparing Factor and Discriminant Analysis, 585 Introducing Importance Weights, 586 Correspondence

Analysis, 586 Basic Concepts of MDS, 586 Application of Evaluating the MDS Solution, 587

MDS with Nonattribute Data, 589 Issues in MDS,

592

Summary of MDS, 593 Conjoint Analysis, 594

Overview of Conjoint Analysis, 595 Interpreting Attribute Importance, 596 Collecting Trade-off Data,

Comparing Data Collection Approaches, 598 597

Analyzing and Interpreting the Data, 599 Validity Issues, 600 Application Issues, 600

Summary of Conjoint Analysis, 601

Questions and Problems, 602

Cuestions and Problems, 60

End Notes, 603

Case 22-1: Nester's Foods, 604 Case 22-2: Pepsi-Cola, 605

Case 22-3: The Electric Truck Case, 608

Case 22-4: Fargo Instruments, 608

#### CHAPTER 23 Presenting the Results, 610

Learning Objectives, 610
Guidelines for Successful Presentations, 610
Communicate to a Specific Audience, 611 Structure

the Presentation, 611 Create Audience Interest, 613

#### PART V

#### **APPLICATIONS**

## CHAPTER 24 Traditional Applications of Marketing Research: Product, Price, Distribution, and Promotion, 627

Learning Objectives, 627

New Product Research, 628

Concept Generation, 628 Product Evaluation and Development, 631 Test Marketing, 635 Really

New Products, 637 Pricing Research, 639

Research for Skimming Pricing, 639 Research for

Penetration Pricing, 639

Distribution Research, 640

Warehouse and Retail Location Research, 640 Number and Location of Sales Representatives, 646

Promotion Research, 647

Advertising Research, 648 Purchase Behavior, 651

Tracking Studies, 652 Diagnostic Testing, 652 Copy Test Validity, 653 Budget Decision, 654

Media Research, 654 Sales Promotion Research, 655

Summary, 656

Questions and Problems, 657

End Notes, 659

Case 24-1: Brown Microwave, 660

Case 24-2: National Chemical Corporation, 661

Case 24-3: U.S. Department of Energy (B), 662

Case 24-4: Levi Strauss & Co., 662

Be Specific and Visual, 613 Address Issues of Validity and Reliability, 614

Written Presentation, 615

The Organization of the Report, 617

Oral Presentation, 619

Don't Read, 619 Use Visual Aids, 620 Make Sure the Start Is Positive, 621 Avoid Distracting the

Audience, 621 Involve the Audience, 621

Relationship with the Client, 622

Summary, 622

Questions and Problems, 622

End Notes, 622

#### Cases for Part IV, 623

Case IV-1: Smith's Clothing (B), 623 Case IV-2: Newfood, 623

# CHAPTER 25 Contemporary Applications of Marketing Research: Competitive Advantage, Brand Equity, Customer Satisfaction, and Total Quality Management, 665

Learning Objectives, 665

Competitive Advantage, 666

Assessing Competitive Advantage, 666 Brand Equity, 668

Research Questions under Brand Equity, 668

Measuring Brand Equity, 669

Customer Satisfaction, 673

Customer Satisfaction Measurement Process, 674

Total Quality Management, 679

Information Requirements for Total Quality

Management, 680 Quality Function Deployment, 684

Summary, 686

Questions and Problems, 687

End Notes, 687

#### CHAPTER 26 Emerging Applications of Marketing Research: Database Marketing, E-Commerce, and Relationship Marketing, 689

Learning Objectives, 689 Database Marketing 690

XV

What Is a Database?, 690 The Need for Databases, 691 Elements of a Database, 693 Using Marketing Databases for Marketing Intelligence, 693 Ways to Gather Consumer Data, 694 Types of Databases, 695 Value-Added Databases, 697 Data Mining, 697 Benefits of Database Marketing, 700

E-Commerce, 700

Relationship Marketing, 704
The Packaging Is the Message, 704
Three Keys to Relationship Marketing, 705

Summary, 707

Questions and Problems, 707

End Notes, 707

Appendix: Forecasting, 708

Qualitative Methods, 708 Quantitative Methods, 709

End Notes, 710

#### Appendix: Tables, 711

**A-1.** Standard Normal Cumulative Probability in Right-Hand Tail for Positive Values of z, Areas are Formed by Symmetry, 711

A-2.  $\chi^2$  Critical Points, 712

A-3. F Critical Points, 714

A-4. t Critical Points, 717

**A-5.** Procedures for Conducting Univariate and Multivariate Analysis in SPSS, 718

A-6. Output of Select Tables in SPSS, 722

Glossary, 733

Index, 743