1. Achieving Business Success Through Information Technology
   Chapter 1: Business Driven Technology
   Chapter 2: Identifying Competitive Advantages
   Chapter 3: Strategic Initiatives for Implementing Competitive Advantages
   Chapter 4: Measuring the Success of Strategic Initiatives
   Chapter 5: Organizational Structures That Support Strategic Initiatives

2. Managing Information for Business Initiatives
   Chapter 6: Valuing Organizational Information
   Chapter 7: Storing Organizational Information—Databases
   Chapter 8: Accessing Organizational Information—Data Warehouse

3. Enhancing Business Decisions
   Chapter 9: Enabling the Organization—Decision Making
   Chapter 10: Extending the Organization—Supply Chain Management
   Chapter 11: Building a Customer-centric Organization—Customer Relationship Management
   Chapter 12: Integrating the Organization from End to End—Enterprise Resource Planning

4. Creating Collaborative Partnerships in Business
   Chapter 13: Creating Innovative Organizations
   Chapter 14: E-Business
   Chapter 15: Creating Collaborative Partnerships
   Chapter 16: Integrating Wireless Technology in Business

5. Transforming Organizations
   Chapter 17: Building Software to Support an Agile Organization
   Chapter 18: Outsourcing in the 21st Century
   Chapter 19: Developing a 21st Century Organization
BUSINESS PLUG-INS

B1  Business Basics
B2  Business Process
B3  Hardware and Software
B4  Enterprise Architectures
B5  Networks and Telecommunications
B6  Information Security
B7  Ethics
B8  Supply Chain Management

TECHNOLOGY PLUG-INS

T1  Personal Productivity Using IT
T2  Basic Skills Using Excel
T3  Problem Solving Using Excel
T4  Decision Making Using Excel
T5  Designing Database Applications

Apply Your Knowledge Projects
Glossary
B9  Customer Relationship Management
B10  Enterprise Resource Planning
B11  E-Business
B12  Emerging Trends and Technologies
B13  Strategic Outsourcing
B14  Systems Development
B15  Project Management

T6  Basic Skills and Tools Using Access
T7  Problem Solving Using Access
T8  Decision Making Using Access
T9  Designing Web Pages
T10  Basic Skills Using FrontPage

Notes
Index
# TABLE OF CONTENTS

Preface xix
About the Authors xxxvii

**Apple—Merging Technology, Business, and Entertainment** 2
*Introduction* 6

**CHAPTER 1: BUSINESS DRIVEN TECHNOLOGY** 7
*Information Technology’s Role in Business* 7
*Information Technology’s Impact on Business Operations* 7
*Information Technology Basics* 8
*Information* 9
*IT Resources* 9
*IT Cultures* 10

**Chapter 1 Case:** The World Is Flat—Thomas Friedman 12

>> **Plug-In Pointers:** B1, B2, B3, B4, B5, T1 13–14

**CHAPTER 2: IDENTIFYING COMPETITIVE ADVANTAGES** 15
*Identifying Competitive Advantages* 15
*The Five Forces Model—Evaluating Business Segments* 15
*Buyer Power* 16
*Supplier Power* 16
*Threat of Substitute Products or Services* 17
*Threat of New Entrants* 17
*Rivalry among Existing Competitors* 18

*The Three Generic Strategies—Creating a Business Focus* 18
*Value Chain Analysis—Targeting Business Processes* 18
*Value Creation* 19

**Chapter 2 Case:** Say “Charge It” with Your Cell Phone 21

**CHAPTER 3: STRATEGIC INITIATIVES FOR IMPLEMENTING COMPETITIVE ADVANTAGES** 23
*Strategic Initiatives* 23
*Supply Chain Management* 23
*Customer Relationship Management* 25
*CRM Strategy* 26
*Business Process Reengineering* 27
*Finding Opportunity Using BPR* 27
*Pitfalls of BPR* 28
The Value of Timely Information 62
The Value of Quality Information 63
Understanding the Costs of Poor Information 64
Understanding the Benefits of Good Information 65

Chapter 6 Case: Fishing for Quality 66

CHAPTER 7: STORING ORGANIZATIONAL INFORMATION—DATABASES 67
Storing Organizational Information 67
Relational Database Fundamentals 67
  Entities, Entity Classes, and Attributes 68
  Keys and Relationships 68
Relational Database Advantages 68
  Increased Flexibility 70
  Increased Scalability and Performance 70
  Reduced Information Redundancy 70
  Increased Information Integrity (Quality) 71
  Increased Information Security 71
Database Management Systems 71
  Data Definition Component 72
  Data Manipulation Component 73
  Application Generation and Data Administration Components 74
Integrating Information among Multiple Databases 76

Chapter 7 Case: Hotcourses Increases Revenues by 60 Percent 78
>> Technology Plug-In Pointers: T5, T6 79

CHAPTER 8: ACCESSING ORGANIZATIONAL INFORMATION—DATA WAREHOUSE 80
Accessing Organizational Information 80
History of Data Warehousing 80
Data Warehouse Fundamentals 81
  Multidimensional Analysis and Data Mining 82
  Information Cleansing or Scrubbing 83
Business Intelligence 86
  Enabling Business Intelligence 86

Chapter 8 Case: Mining the Data Warehouse 87
>> Technology Plug-In Pointers: T3, T7 88

Unit Summary 89
Key Terms 89

Unit Closing Case One: Harrah's—Gambling
  Big on Technology 90

Unit Closing Case Two: Searching for Revenue—Google 92

Making Business Decisions 95

UNIT 3
Enhancing Business Decisions 98

Gearing Up at REI 99
Introduction 102

CHAPTER 9: ENABLING THE ORGANIZATION—DECISION MAKING 103
Decision Making 103
Transaction Processing Systems 104
Decision Support Systems 105
Executive Information Systems 107
Digital Dashboards 108
Artificial Intelligence (AI) 109
Expert Systems 110
Neural Networks 111
Genetic Algorithms 111
Intelligent Agents 112
Data Mining 112
Cluster Analysis 112
Association Detection 113
Statistical Analysis 113

Chapter 9 Case: Defense Advanced Research Projects Agency (DARPA) Grand Challenge 115
>> Technology Plug-In Pointers: T4, T8 116

CHAPTER 10: EXTENDING THE ORGANIZATION—SUPPLY CHAIN MANAGEMENT 117
Supply Chain Management 117
Basics of Supply Chain 117
Information Technology’s Role in the Supply Chain 118
Visibility 120
Consumer Behavior 121
Competition 121
Speed 122
Supply Chain Management Success Factors 122
Make the Sale to Suppliers 123
Wean Employees off Traditional Business Practices 123
Ensure the SCM System Supports the Organizational Goals 123
Deploy in Incremental Phases and Measure and Communicate Success 124
Be Future Oriented 124

SCM Success Stories 124
Chapter 10 Case: BudNet 125
>> Business Plug-In Pointer: B8 126

CHAPTER 11: BUILDING A CUSTOMER-CENTRIC ORGANIZATION—CUSTOMER RELATIONSHIP MANAGEMENT 127
Customer Relationship Management (CRM) 127
Customer Relationship Management’s Explosive Growth 128
Using Analytical CRM to Enhance Decisions 129
Customer Relationship Management Success Factors 130
Chapter 11 Case: The Ritz-Carlton—Specializing in Customers 132
>> Plug-In Pointer: B9 133

CHAPTER 12: INTEGRATING THE ORGANIZATION FROM END TO END—ENTERPRISE RESOURCE PLANNING 134
Enterprise Resource Planning (ERP) 134
Enterprise Resource Planning’s Explosive Growth 136
The Connected Corporation 136
Integrating SCM, CRM, and ERP 138
Chapter 12 Case: Hilton Purchases New Suite 140
UNIT 4
Creating Collaborative Partnerships in Business 150

EBay—The Ultimate E-Business 151
Introduction 154

CHAPTER 13: CREATING INNOVATIVE ORGANIZATIONS 155
Disruptive Technology 155
  Disruptive versus Sustaining Technology 155
  The Internet—Business Disruption 157
Evolution of the Internet 157
  Evolution of the World Wide Web 158
Chapter 13 Case: Direct Groceries 160

>> Plug-In Pointers: T9, T10 161

CHAPTER 14: E-BUSINESS 162
E-Business 162
E-Business Models 162
  Business-to-Business (B2B) 163
  Business-to-Consumer (B2C) 164
  Consumer-to-Business (C2B) 165
  Consumer-to-Consumer (C2C) 165
E-Business Benefits and Challenges 165
Chapter 14 Case: 7-Eleven’s Dream Team 168

>> Plug-In Pointer: B11 168

CHAPTER 15: CREATING COLLABORATIVE PARTNERSHIPS 169
Teams, Partnerships, and Alliances 169
Collaboration Systems 170
Knowledge Management 172
  KM in Business 175
Knowledge Management Systems 173
  Explicit and Tacit Knowledge 173
  KM Technologies 175
  KM and Social Networking 175
Content Management Systems 176
Workflow Management Systems 176
Groupware Systems 179
Collaboration Trends 180
Chapter 15 Case: Dreamworks Animation Collaboration 181

CHAPTER 16: INTEGRATING WIRELESS TECHNOLOGY IN BUSINESS 183
Wireless Fidelity (Wi-Fi) 183
Business Drivers for Wireless Technologies 183
Advantages of Enterprise Mobility 184
   Bluetooth 185
   Radio Frequency Identification (RFID) 186
   Satellite 188
   Global Positioning System (GPS) 188

The Future of Wireless 189

Chapter 16 Case: UPS versus FedEx: Head-to-Head on Wireless 190

>> Plug-In Pointer: B12 191

Unit Summary 192

Key Terms 192

Unit Closing Case One: Improving Highway Safety Through Collaboration 193

Unit Closing Case Two: Amazon.com—Not Your Average Bookstore 195

Making Business Decisions 196

UNIT 5
Transferring Organizations 198

The Digital Hospital 199

Introduction 201

CHAPTER 17: BUILDING SOFTWARE TO SUPPORT AN AGILE ORGANIZATION 202

Systems Development 202
Developing Software—The Systems Development Life Cycle (SDLC) 203

Software Development Methodologies 204
   Waterfall Methodology 205
   Rapid Application Development Methodology (RAD) 206
   Extreme Programming Methodology 206
   Agile Methodology 207

Developing Successful Software 208
   Slash the Budget 208
   If It Doesn’t Work, Kill It 208
   Keep Requirements to a Minimum 208
   Test and Deliver Frequently 208
   Assign Non-IT Executives to Software Projects 209

Project Managing the Systems Development Effort 209

Chapter 17 Case: Transforming the Entertainment Industry—Netflix 211

>> Plug-In Pointers: B14, B15 213

CHAPTER 18: OUTSOURCING IN THE 21ST CENTURY 214

Outsourcing Development 214
Insourcing 214
Outsourcing 215
   Financial Savings 215
   Increased Technical Abilities 215
   Market Agility 216

Developing Strategic Outsourcing Partnerships
Sourcing’s New Surge—Offshoring 217
Chapter 18 Case: UPS in the Computer Repair Business 218

>> Plug-In Pointer: B13 219

CHAPTER 19: DEVELOPING A 21ST CENTURY ORGANIZATION 220
Developing Organizations 220

21st Century Organization Trends 220
  Increased Focus on IT Infrastructure 220
  Increased Focus on Security 221
  Increased Focus on E-Business 223
  Increased Focus on Integration 223

Chapter 19 Case: Creating a Clearer Picture for Public Broadcasting Service (PBS) 225

Unit Summary 227

Key Terms 227

Unit Closing Case One: RFID—Future Tracking 228

Unit Closing Case Two: Masters of Innovation, Technology, and Strategic Vision 229

Making Business Decisions 232

>> Plug-In B1

Business Basics 236

Introduction 236

Types of Business 236
  Sole Proprietorship 237
  Partnership 237
  Corporation 237

Internal Operations of a Corporation 239

Accounting 239
  Financial Statements 240

Finance 242
  Financial Analysis 242

Human Resources 242
  Management Techniques 243

Sales 244
  The Sales Process 244
  Market Share 245

Marketing 246
  Marketing Mix 247
  Customer Segmentation 248
  The Product Life Cycle 248

Operations/Production 248
  Business Process Reengineering 248
  Transforming Corporations 249

Management Information Systems 250

Plug-In Summary 252

Key Terms 253

Closing Case One: Battle of the Toys—FAO Schwarz Is Back! 253

Closing Case Two: Innovative Business Managers 255

Making Business Decisions 257
<table>
<thead>
<tr>
<th>Plugin B7</th>
<th>Ethics 344</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>344</td>
</tr>
<tr>
<td>Ethics</td>
<td>345</td>
</tr>
<tr>
<td>Developing Information Management Policies</td>
<td>348</td>
</tr>
<tr>
<td>Ethical Computer Use Policy</td>
<td>348</td>
</tr>
<tr>
<td>Information Privacy Policy</td>
<td>349</td>
</tr>
<tr>
<td>Acceptable Use Policy</td>
<td>350</td>
</tr>
<tr>
<td>E-mail Privacy Policy</td>
<td>350</td>
</tr>
<tr>
<td>Internet Use Policy</td>
<td>351</td>
</tr>
<tr>
<td>Anti-spam Policy</td>
<td>351</td>
</tr>
<tr>
<td>Ethics in the Workplace</td>
<td>352</td>
</tr>
<tr>
<td>Monitoring Technologies</td>
<td>353</td>
</tr>
<tr>
<td>Plug-In Summary</td>
<td>355</td>
</tr>
<tr>
<td>Key Terms</td>
<td>355</td>
</tr>
<tr>
<td>Closing Case One: Sarbanes-Oxley: Where Information Technology, Finance, and Ethics Meet</td>
<td>356</td>
</tr>
<tr>
<td>Closing Case Two: Invading Your Privacy</td>
<td>357</td>
</tr>
<tr>
<td>Making Business Decisions</td>
<td>358</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plugin B8</th>
<th>Supply Chain Management 360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>360</td>
</tr>
<tr>
<td>Supply Chain Drivers</td>
<td>360</td>
</tr>
<tr>
<td>Facilities Driver</td>
<td>361</td>
</tr>
<tr>
<td>Inventory Driver</td>
<td>362</td>
</tr>
<tr>
<td>Transportation Driver</td>
<td>363</td>
</tr>
<tr>
<td>Information Driver</td>
<td>364</td>
</tr>
<tr>
<td>Applying a Supply Chain Design</td>
<td>365</td>
</tr>
<tr>
<td>Future Trends</td>
<td>367</td>
</tr>
<tr>
<td>Plug-In Summary</td>
<td>369</td>
</tr>
<tr>
<td>Key Terms</td>
<td>369</td>
</tr>
<tr>
<td>Closing Case One: Listerine’s Journey</td>
<td>369</td>
</tr>
<tr>
<td>Closing Case Two: Katrina Shakes Supply Chains</td>
<td>371</td>
</tr>
<tr>
<td>Making Business Decisions</td>
<td>373</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plugin B9</th>
<th>Customer Relationship Management 376</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>376</td>
</tr>
<tr>
<td>The Evolution of CRM</td>
<td>377</td>
</tr>
<tr>
<td>Using IT to Drive Operational CRM</td>
<td>378</td>
</tr>
<tr>
<td>Marketing and Operational CRM</td>
<td>378</td>
</tr>
<tr>
<td>Sales and Operational CRM</td>
<td>379</td>
</tr>
<tr>
<td>Customer Service and Operational CRM</td>
<td>382</td>
</tr>
<tr>
<td>Analytical CRM</td>
<td>384</td>
</tr>
<tr>
<td>Current Trends: SRM, PRM, and ERM</td>
<td>386</td>
</tr>
<tr>
<td>Supplier Relationship Management</td>
<td>386</td>
</tr>
<tr>
<td>Partner Relationship Management</td>
<td>386</td>
</tr>
<tr>
<td>Employee Relationship Management</td>
<td>387</td>
</tr>
<tr>
<td>Future Trends</td>
<td>387</td>
</tr>
<tr>
<td>Plug-In Summary</td>
<td>388</td>
</tr>
</tbody>
</table>
Key Terms 388

Closing Case One: Fighting Cancer with Information 389
Closing Case Two: Calling All Canadians 390
Making Business Decisions 391

>> Plug-In B10
Enterprise Resource Planning 394

Introduction 394

Core and Extended ERP Components 394
  Core ERP Components 396
  Extended ERP Components 397

ERP Benefits and Risks (Costs) 398

The Future of ERP 399
  Internet 401
  Interface 401
  Wireless Technology 401

Plug-In Summary 402

Key Terms 402

Closing Case One: PepsiAmericas' Enterprises 402
Closing Case Two: Campus ERP 403
Making Business Decisions 405

>> Plug-In B11
E-Business 408

Introduction 408

Accessing Internet Information 408
  Intranet 409
  Extranet 409
  Portal 409
  Kiosk 410

Providing Internet Information 410
  Internet Service Provider 410
  Online Service Provider 411
  Application Service Provider 412

Organizational Strategies for E-Business 412
  Marketing/Sales 412
  Financial Services 415
  Procurement 416
  Customer Service 417
  Intermediaries 417

Measuring E-Business Success 419
  Web Site Metrics 419

New Trends in E-Business: E-Government and
M-Commerce 422
  M-Commerce 422

Plug-In Summary 425

Key Terms 425

Closing Case One: Mail with PostalOne 425
Closing Case Two: Made-to-Order Businesses 427
Making Business Decisions 428
Plugin B12
Emerging Trends and Technologies 430

Introduction 430
Reasons to Watch Trends 430
Trends Shaping Our Future 431
The World's Population Will Double in the Next 40 Years 431
People in Developed Countries Are Living Longer 432
The Growth in Information Industries Is Creating a Knowledge-Dependent Global Society 432
The Global Economy Is Becoming More Integrated 433
The Economy and Society Are Dominated by Technology 434
Pace of Technological Innovation Is Increasing 434
Time Is Becoming One of the World's Most Precious Commodities 434

Technologies Shaping Our Future 435
Digital Ink 435
Digital Paper 435
Teleliving 437
Alternative Energy Sources 438
Autonomic Computing 438

Plug-In Summary 440
Key Terms 440
Closing Case One: Autonomic Railways 440
Closing Case Two: Wireless Progression 441
Making Business Decisions 442

Plugin B13
Strategic Outsourcing 444

Introduction 444
The Outsourcing Phenomenon 444
Outsourcing Benefits 446
Outsourcing Options 446
Offshore Outsourcing 447
The Challenges of Outsourcing 453

Future Trends 455
Multisourcing 455

Plug-In Summary 456
Key Terms 456
Closing Case One: Mobil Travel Guide 456
Closing Case Two: Outsourcing Brew 457
Making Business Decisions 458

Plugin B14
Systems Development 460

Introduction 460
Systems Development Life Cycle 461
Phase 1: Planning 461
Phase 2: Analysis 463
Phase 3: Design 466
Phase 4: Development 468
Phase 5: Testing 468
Phase 6: Implementation 469
Phase 7: Maintenance 471

Software Problems Are Business Problems 471
Unclear or Missing Business Requirements 472
Skipping SDLC Phases 472
Failure to Manage Project Scope 472
Failure to Manage Project Plan 473
Changing Technology 473

Plug-In Summary 474

Key Terms 474

Closing Case One: Disaster at Denver International Airport 475

Closing Case Two: Reducing Ambiguity in Business Requirements 475

Making Business Decisions 477

>> Plug-In B15

Project Management 478

Introduction 478

Project Management Fundamentals 478
  Choosing Strategic Projects 479
  Setting the Project Scope 480
  Managing Resources and Maintaining the Project Plan 481

Change Management and Risk Management 481
  Change Management 482
  Preparing for Change 483
  Risk Management 484
  Mitigating Risk 485

Successful Project Management Strategies 486

Plug-In Summary 487

Key Terms 487

Closing Case One: Staying on Track—Toronto Transit 487

Closing Case Two: Change at Toyota 488

Making Business Decisions 490

>> PLUG-INT1 ON CD

Personal Productivity Using IT

Introduction

Creating Strong Passwords
  Create Strong Passwords That You Can Remember
  Keep Your Passwords a Secret
  Manage Your Passwords
  Monitor Your Accounts

Performing Good File Management
Implementing Effective Backup and Recovery Strategies
  Determining What to Back Up
  How to Back Up Your Computer Files
  Microsoft's Backup and Recover Utility

Using Zip Files
  To Create a Zipped Compressed Folder
  To Add Files to a Zipped Compressed Folder
  To Extract Files from a Zipped Compressed Folder
  To Open a Zipped Compressed Folder

Writing Professional E-Mails
  Netiquette 101

Stopping Spam
  How Do Spammers Get E-Mail Addresses?
  How to Handle Spam

Preventing Phishing
  What Is Phishing?
  How Does Phishing Work?
  What Does a Phishing Scam Look Like?
  Help Prevent Identity Theft from Phishing Scams

Detecting Spyware
  Preventing Spyware
  How to Get Rid of Spyware

Restricting Instant Messages

Increasing PC Performance
  Free Disk Space
  Speed Up Access to Data
  Detect and Repair Disk Errors

Using Anti-Virus Software
  Anti-Virus Software
  Cell Phone Viruses

Installing a Personal Firewall
  To Open Windows Firewall

Plug-In Summary
  Making Business Decisions

>> PLUG-IN T2

Basic Skills Using Excel 492

Introduction 492

Workbooks and Worksheets 494
  Creating Workbooks Using Templates 495
  Saving a Workbook 495
  Inserting and Deleting Worksheets 496

Working with Cells and Cell Data 497
  Inserting and Deleting Cells 497
  Merging and Splitting Cells 497
  Cutting, Copying, and Pasting Cells 498
  Entering Text in Cells 498
  Applying Number Formats 498
  Applying Styles 499

Printing Worksheets 499
  Setting Up the Page for Printing 499
  Setting Margins for Printing 500
Previewing a Print Area 501
Printing Selections, Worksheets, and Workbooks 501

**Formatting Worksheets** 502
- Inserting Rows and Columns 502
- Deleting Rows and Columns 502
- Modifying Row Heights 502
- Modifying Column Widths 504

**Formulas** 505
- Entering Formulas 505
- Using the Formula Bar 505
- Using Absolute and Relative References 506
- Using the Sum Function 506
- Using the Min and Max Functions 507
- Using the Date or NOW Function 507

**Working with Charts and Graphics** 508
- Creating a Chart Using the Chart Wizard 508
- Modifying Charts 509
- Moving a Chart 509
- Adding Graphics 510

**Plug-In Summary** 511

**Making Business Decisions** 511

---

**>> PLUG-IN T3 ON CD**

**Problem Solving Using Excel**

**Introduction**

**Lists**
- Sorting Rows and Columns
- Sorting More Than One Column
- Creating Your Own Custom Sort Order

**Creating Conditional Formatting**

**Using AutoFilter to Find Records**
- Creating a Custom AutoFilter

**Analyzing a List with the Subtotals Command**

**PivotTables**
- PivotTable Terminology
- Building a PivotTable
- Modifying a PivotTable View
- PivotTable Tools
- Building a PivotChart

**Plug-In Summary**

**Making Business Decisions**

---

**>> PLUG-IN T4 ON CD**

**Decision Making Using Excel**

**Introduction**

**Creating Formulas Using the IF Function**

**Goal Seek**
- Using the Goal Seek Command

**Solver**
- Installing Solver
- Setting Up the Problem
- Editing a Solver Forecast
Scenario Manager
  Setting Up Scenarios
  Modifying a Scenario
  Creating a Scenario Summary Report

Plug-In Summary
Making Business Decisions

>> PLUG-INT5 ON CD
Designing Database Applications

Introduction

Entities and Data Relationships
  Entities and Their Attributes
  Attributes

Documenting Logical Data Relationships
  Basic Data Relationships
  Relationship Connectivity and Cardinality
  Dealing with Many-to-Many Relationships
  Schemas

The Relational Data Model
  Understanding Relations
  Representing Data Relationships
  Relationships and Business Rules

Normalization
  Normal Forms
  Normalized Relations and Database Performance

Plug-In Summary
Making Business Decisions

>> PLUG-INT6
Basic Skills and Tools Using Access  514

Introduction to Access  514
  Creating a New Blank Database  516
  Opening an Existing Database  517
  Using the Database Wizard  517
  Using the Database Window and Object Views  518
  Using Table Views  519

Creating and Modifying Tables  519
  Creating a Table with the Table Design Wizard  519
  Creating a Table Using Data Entry  520
  Creating a Table in Design View  520
  Changing Data Types  522
  Using the Input Mask Wizard  522
  Using the Format Property  524

Defining Relationships  524
  Using the Relationships Window  525

Plug-In Summary  527
Making Business Decisions  527

>> PLUG-INT7 ON CD
Problem Solving Using Access

Introduction to Queries
Creating Simple Queries
  Reordering Columns in the Select Query Datasheet
Creating a Select Query in Design View
Adding Selection Criteria to a Select Query
Sorting Data in a Select Query

Advanced Queries
Using the Expression Builder
Using Aggregate Functions to Calculate Totals in Queries
Formatting Results Displayed in a Calculated Field
Creating and Running Queries to Modify Data

Plug-In Summary
Making Business Decisions

>> PLUG-IN T8  ON CD
Decision Making Using Access

Introduction
Forms
Creating a Form Using the Form Wizard
Creating and Saving AutoForms
Modifying the Properties of a Form
Modifying Specific Controls on a Form
Aligning Controls in a Form
Reports
Using the Report Wizard
Modifying the Report Design
Changing Margins and Page Orientation for Reports

Plug-In Summary
Making Business Decisions

>> PLUG-IN T9  ON CD
Designing Web Pages

Introduction
The World Wide Web
The Web Is Media Rich
The Web Is Interactive
Web Pages Can Be Designed
The Web Is Nonlinear
The Web Has No Control
Designing for the Unknown

The Process of Web Design
Analyze and Plan
Create and Organize Content
Develop the Look and Feel
Produce Graphics and HTML Documents
Creating a Working Prototype
Test, Test, Test
Upload to a Web Server and Test Again
Maintain

HTML Basics
Viewing the Source
HTML 101
Types of Tags
The Anatomy of a Tag
Basic Fonts

Web Graphics
- Graphic Formats
- Limited Color Palettes
- Pixels, Not Inches
- Tools of the Trade

Plug-In Summary

Making Business Decisions

>> PLUG-IN T 10 ON CD

Basic Skills Using FrontPage

Introduction

Web Sites, Web Pages, and HTML
- FrontPage Builds Web Sites Big and Small

Navigation in FrontPage
- Understanding the Interface
- FrontPage Views

Building a Web Site
- Starting FrontPage
- Creating a Web Site with Templates
- Creating a Web Site with a Wizard
- Creating an Empty Web Site
- Saving a Web Site

Building a Web Page
- Creating a Web Page from a Template
- Creating a Blank Web Page
- Entering Text on a Web Page
- Formatting Text
- Paragraphs

Working with Graphics
- Using Ruled Lines
- Putting Your Own Images on a Web Page

Including Hyperlinks
- Creating a Hyperlink
- Creating a Link to an E-Mail Address

Presenting Information in Lists and Tables
- Working with Lists
- Working with Tables
- Working with Rows and Columns
- Working with Cells

Formatting Pages
- Setting Page Properties
- Themes

Plug-In Summary

Making Business Decisions

Apply Your Knowledge Projects 530

Glossary 570

Notes 583

Illustration Credits 590

Index 592