

# Contents

Learning Objectives	38
<i>Everything on Demand: The “Uberization” of E-commerce</i>	39
<b>1.1 <i>The First Thirty Seconds: Why You Should Study E-commerce</i></b>	<b>44</b>
<b>1.2 <i>Introduction to E-commerce</i></b>	<b>44</b>
What Is E-commerce?	45
The Difference Between E-commerce and E-business	45
Technological Building Blocks Underlying E-commerce: the Internet, Web, and Mobile Platform	46
Major Trends in E-commerce	48
<i>Insight on Technology: Will Apps Make the Web Irrelevant?</i>	49
<b>1.3 <i>Unique Features of E-commerce Technology</i></b>	<b>52</b>
Ubiquity	54
Global Reach	54
Universal Standards	54
Richness	55
Interactivity	55
Information Density	56
Personalization and Customization	56
Social Technology: User-Generated Content and Social Networks	57
<b>1.4 <i>Types of E-commerce</i></b>	<b>58</b>
Business-to-Consumer (B2C) E-commerce	58
Business-to-Business (B2B) E-commerce	59
Consumer-to-Consumer (C2C) E-commerce	60
Mobile E-commerce (M-commerce)	60
Social E-commerce	61
Local E-commerce	62
<b>1.5 <i>E-commerce: A Brief History</i></b>	<b>63</b>
E-commerce 1995–2000: Invention	64
E-commerce 2001–2006: Consolidation	67

	E-commerce 2007–Present: Reinvention	67
	Assessing E-commerce: Successes, Surprises, and Failures	68
	<i>Insight on Business: Rocket Internet</i>	69
<b>1.6</b>	<b><i>Understanding E-commerce: Organizing Themes</i></b>	<b>73</b>
	Technology: Infrastructure	73
	Business: Basic Concepts	75
	Society: Taming the Juggernaut	75
	<i>Insight on Society: Facebook and the Age of Privacy</i>	76
<b>1.7</b>	<b><i>Academic Disciplines Concerned with E-commerce</i></b>	<b>78</b>
	Technical Approaches	78
	Behavioral Approaches	78
<b>1.8</b>	<b><i>Careers in E-commerce</i></b>	<b>79</b>
	The Company	79
	Position: Category Specialist in the e-Commerce Retail Program	79
	Qualifications/Skills	80
	Preparing for the Interview	80
	Possible First Interview Questions	80
<b>1.9</b>	<b><i>Case Study: Puma Goes Omni</i></b>	<b>82</b>
<b>1.10</b>	<b><i>Review</i></b>	<b>85</b>
	Key Concepts	85
	Questions	87
	Projects	88
	References	88

	Learning Objectives	90
	<i>Tech Titans Target a Prize: Bringing Internet Access to Rural India</i>	91
<b>2.1</b>	<b><i>The Internet: Technology Background</i></b>	<b>94</b>
	The Evolution of the Internet: 1961—The Present	96
	The Internet: Key Technology Concepts	100
	Packet Switching	100
	Transmission Control Protocol/Internet Protocol (TCP/IP)	102
	IP Addresses	102
	Domain Names, DNS, and URLs	104
	Client/Server Computing	104
	The Mobile Platform	106

The Internet “Cloud Computing” Model: Hardware and Software as a Service	107
Other Internet Protocols and Utility Programs	111
<b>2.2 Internet Infrastructure and Access</b>	<b>113</b>
The Internet Backbone	115
Internet Exchange Points	117
Tier 3 Internet Service Providers	117
Campus/Corporate Area Networks	120
Mobile Internet Access	121
Telephone-based versus Computer Network-based Wireless Internet Access	121
Other Innovative Internet Access Technologies: Drones, Balloons, and White Space	124
The Internet of Things	125
<i>Insight on Business: The Apple Watch: Bringing the Internet of Things to Your Wrist</i>	127
Who Governs the Internet?	129
<i>Insight on Society: Government Regulation and Surveillance of the Internet</i>	131
<b>2.3 The Web</b>	<b>134</b>
Hypertext	135
Markup Languages	137
HyperText Markup Language (HTML)	137
eXtensible Markup Language (XML)	139
Web Servers and Clients	140
Web Browsers	142
<b>2.4 The Internet and the Web: Features and Services</b>	<b>142</b>
Communication Tools	142
E-mail	143
Messaging Applications	143
Online Message Boards	143
Internet Telephony	144
Video Conferencing, Video Chatting, and Telepresence	144
Search Engines	145
Downloadable and Streaming Media	146
Web 2.0 Applications and Services	149
Online Social Networks	149
Blogs	149
Wikis	149
Virtual Reality and Augmented Reality	150
<i>Insight on Technology: Leaping into the Future with AR and VR</i>	151
Intelligent Digital Assistants	153
<b>2.5 Mobile Apps: The Next Big Thing Is Here</b>	<b>153</b>
Platforms for Mobile Application Development	154
App Marketplaces	154

<b>2.6</b>	<b><i>Careers in E-commerce</i></b>	<b>155</b>
	The Company	155
	Position: E-commerce Specialist	155
	Qualifications/Skills	156
	Preparing for the Interview	156
	Possible First Interview Questions	156
<b>2.7</b>	<b><i>Case Study: Akamai Technologies: Attempting to Keep Supply Ahead of Demand</i></b>	<b>158</b>
<b>2.8</b>	<b><i>Review</i></b>	<b>161</b>
	Key Concepts	161
	Questions	162
	Projects	163
	References	163

**3****BUILDING AN E-COMMERCE PRESENCE 166**

	Learning Objectives	166
	<i>The Financial Times: A Remodel for 21st Century Publishing Profitability</i>	167
<b>3.1</b>	<b><i>Imagine Your E-commerce Presence</i></b>	<b>170</b>
	What's the Idea? (The Visioning Process)	170
	Where's the Money: Business and Revenue Model	170
	Who and Where Is the Target Audience?	171
	What Is the Ballpark? Characterize the Marketplace	171
	Where's the Content Coming From?	172
	Know Yourself: Conduct a SWOT Analysis	173
	Develop an E-commerce Presence Map	174
	Develop a Timeline: Milestones	175
	How Much Will This Cost?	175
<b>3.2</b>	<b><i>Building an E-commerce Presence: A Systematic Approach</i></b>	<b>176</b>
	The Systems Development Life Cycle	178
	Systems Analysis/Planning: Identify Business Objectives, System Functionality, and Information Requirements	179
	System Design: Hardware and Software Platforms	180
	Building the System: In-house Versus Outsourcing	180
	<i>Insight on Business: Weebly Makes Creating Websites Easy</i>	185
	Testing the System	187
	Implementation, Maintenance, and Optimization	188
	Alternative Web Development Methodologies	190
<b>3.3</b>	<b><i>Choosing Software</i></b>	<b>191</b>
	Simple Versus Multi-Tiered WebSite Architecture	191

Web Server Software	193
Site Management Tools	194
Dynamic Page Generation Tools	194
Application Servers	196
E-commerce Merchant Server Software Functionality	197
Online Catalog	197
Shopping Cart	197
Credit Card Processing	197
Merchant Server Software Packages (E-commerce Software Platforms)	197
Choosing an E-commerce Software Platform	199
<b>3.4</b>	<b><i>Choosing Hardware</i> 200</b>
Right-sizing Your Hardware Platform: The Demand Side	200
Right-sizing Your Hardware Platform: The Supply Side	201
<b>3.5</b>	<b><i>Other E-commerce Site Tools</i> 204</b>
WebSite Design: Basic Business Considerations	205
Tools for Search Engine Optimization	205
Tools for Interactivity and Active Content	206
Common Gateway Interface (CGI)	207
Active Server Pages (ASP) and ASP.NET	207
Java, Java Server Pages (JSP), and JavaScript	208
ActiveX and VBScript	209
ColdFusion	209
PHP, Ruby on Rails (RoR), and Django	209
Other Design Elements	210
Personalization Tools	211
The Information Policy Set	211
<i>Insight on Society: Designing for Accessibility</i>	212
<b>3.6</b>	<b><i>Developing a Mobile Website and Building Mobile Applications</i> 214</b>
Planning and Building a Mobile Presence	215
Mobile Presence: Design Considerations	216
Cross-platform Mobile App Development Tools	217
Mobile Presence: Performance and Cost Considerations	218
<b>3.7</b>	<b><i>Careers in E-commerce</i> 219</b>
The Company	219
Position: UX Designer	219
<i>Insight on Technology: Carnival Cruise Ships Go Mobile</i>	220
Qualifications/Skills	222
Preparing for the Interview	222
Possible First Interview Questions	223
<b>3.8</b>	<b><i>Case Study: Dick's Sporting Goods: Taking Control of Its E-commerce Operations</i> 225</b>

<b>3.9 Review</b>	<b>228</b>
Key Concepts	228
Questions	230
Projects	231
References	231

**4****E-COMMERCE SECURITY AND PAYMENT SYSTEMS 232**

Learning Objectives	232
<i>The Rise of the Global Cyberattack: WannaCry and NotPetya</i>	233
<b>4.1 The E-commerce Security Environment</b>	<b>236</b>
The Scope of the Problem	237
The Underground Economy Marketplace: The Value of Stolen Information	238
What Is Good E-commerce Security?	240
Dimensions of E-commerce Security	241
The Tension Between Security and Other Values	242
Security versus Ease of Use	242
Public Safety and the Criminal Uses of the Internet	243
<b>4.2 Security Threats in the E-commerce Environment</b>	<b>244</b>
Malicious Code	244
Potentially Unwanted Programs (PUPs)	248
Phishing	250
Hacking, Cybervandalism, and Hacktivism	252
Data Breaches	253
<i>Insight on Society: Equifax: Really Big Data Hacked</i>	254
Credit Card Fraud/Theft	256
Identity Fraud	257
Spoofing, Pharming, and Spam (Junk) Websites	257
Sniffing and Man-in-the-Middle Attacks	258
Denial of Service (DOS) and Distributed Denial of Service (DDOS) Attacks	259
Insider Attacks	260
Poorly Designed Software	260
Social Network Security Issues	261
Mobile Platform Security Issues	262
Cloud Security Issues	263
<i>Insight on Technology: Think Your Smartphone Is Secure?</i>	264
Internet of Things Security Issues	266
<b>4.3 Technology Solutions</b>	<b>267</b>
Protecting Internet Communications	267
Encryption	268

Symmetric Key Cryptography	269
Public Key Cryptography	270
Public Key Cryptography Using Digital Signatures and Hash Digests	270
Digital Envelopes	273
Digital Certificates and Public Key Infrastructure (PKI)	274
Limitations of PKI	276
Securing Channels of Communication	277
Secure Sockets Layer (SSL) and Transport Layer Security (TLS)	277
Virtual Private Networks (VPNs)	278
Wireless (Wi-Fi) Networks	279
Protecting Networks	279
Firewalls	279
Proxy Servers	280
Intrusion Detection and Prevention Systems	281
Protecting Servers and Clients	281
Operating System Security Enhancements	281
Anti-Virus Software	282
<b>4.4 Management Policies, Business Procedures, and Public Laws</b>	<b>282</b>
A Security Plan: Management Policies	282
<i>Insight on Business: Are Biometrics the Solution for E-commerce Security?</i>	285
The Role of Laws and Public Policy	287
Private and Private-Public Cooperation Efforts	289
Government Policies and Controls on Encryption	289
<b>4.5 E-commerce Payment Systems</b>	<b>290</b>
Online Credit Card Transactions	292
Credit Card E-commerce Enablers	293
PCI-DSS Compliance	294
Limitations of Online Credit Card Payment Systems	294
Alternative Online Payment Systems	295
Mobile Payment Systems: Your Smartphone Wallet	296
Blockchain and Cryptocurrencies	297
<b>4.6 Electronic Billing Presentment and Payment</b>	<b>302</b>
Market Size and Growth	303
EBPP Business Models	303
<b>4.7 Careers in E-commerce</b>	<b>305</b>
The Company	305
The Position: Cybersecurity Threat Management Team Trainee	305
Qualifications/Skills	306
Preparing for the Interview	306
Possible First Interview Questions	307

4.8	<i>Case Study: Alipay and WeChat Pay Lead in Mobile Payments</i>	309
4.9	<b>Review</b>	314
	Key Concepts	314
	Questions	317
	Projects	317
	References	318

**5****E-COMMERCE BUSINESS STRATEGIES 322**

	Learning Objectives	322
	<i>Ace &amp; Tate: Disrupting the European Eyewear Industry</i>	323
5.1	<b>E-commerce Business Models</b>	326
	Introduction	326
	Eight Key Elements of a Business Model	326
	Value Proposition	326
	Revenue Model	328
	Market Opportunity	329
	<i>Insight on Society: Foursquare: Check Your Privacy at the Door</i>	330
	Competitive Environment	332
	Competitive Advantage	333
	Market Strategy	334
	Organizational Development	335
	Management Team	335
	Raising Capital	336
	Categorizing E-commerce Business Models: Some Difficulties	338
	<i>Insight on Business: Crowdfunding Takes Off</i>	339
5.2	<b>Major Business-to-Consumer (B2C) Business Models</b>	341
	E-tailer	341
	Community Provider	344
	Content Provider	345
	<i>Insight on Technology: Connected Cars and the Future of E-commerce</i>	346
	Portal	348
	Transaction Broker	348
	Market Creator	349
	Service Provider	350
5.3	<b>Major Business-to-Business (B2B) Business Models</b>	351
	E-distributor	351
	E-procurement	352



Exchanges	353	
Industry Consortia	353	
Private Industrial Networks	354	
<b>5.4</b>	<b><i>How E-commerce Changes Business: Strategy, Structure, and Process</i></b>	<b>354</b>
Industry Structure	355	
Industry Value Chains	358	
Firm Value Chains	359	
Firm Value Webs	360	
Business Strategy	361	
E-commerce Technology and Business Model Disruption	363	
<b>5.5</b>	<b><i>Careers in E-commerce</i></b>	<b>366</b>
The Company	366	
Position: Assistant Manager of E-business	366	
Qualifications/Skills	367	
Preparing for the Interview	367	
Possible First Interview Questions	367	
<b>5.6</b>	<b><i>Case Study: Dollar Shave Club: From Viral Video to \$1 Billion in Just Five Years</i></b>	<b>370</b>
<b>5.7</b>	<b><i>Review</i></b>	<b>374</b>
Key Concepts	374	
Questions	375	
Projects	376	
References	376	

**6****E-COMMERCE MARKETING AND ADVERTISING 378**

Learning Objectives	378	
<i>InMobi's Global Mobile Ad Network</i>	379	
<b>6.1</b>	<b><i>Consumers Online: The Internet Audience and Consumer Behavior</i></b>	<b>382</b>
Internet Traffic Patterns: The Online Consumer Profile	382	
Intensity and Scope of Usage	383	
Demographics and Access	383	
Type of Internet Connection: Broadband and Mobile Impacts	384	
Community Effects: Social Contagion in Social Networks	385	
Consumer Behavior Models	386	
The Online Purchasing Decision	387	
Shoppers: Browsers and Buyers	389	
What Consumers Shop for and Buy Online	390	
Intentional Acts: How Shoppers Find Vendors Online	391	

Why Some People Don't Shop Online	391
Trust, Utility, and Opportunism in Online Markets	391
<b>6.2 <i>Digital Commerce Marketing and Advertising Strategies and Tools</i></b>	<b>392</b>
Strategic Issues and Questions	392
The Website as a Marketing Platform: Establishing the Customer Relationship	394
Traditional Online Marketing and Advertising Tools	395
Search Engine Marketing and Advertising	397
Display Ad Marketing	401
E-mail Marketing	407
Affiliate Marketing	409
Viral Marketing	410
Lead Generation Marketing	410
Social, Mobile, and Local Marketing and Advertising	411
Multi-channel Marketing: Integrating Online and Offline Marketing	412
Other Online Marketing Strategies	413
Customer Retention Strategies	413
<i>Insight on Business: Are the Very Rich Different from You and Me?</i>	414
Pricing Strategies	420
Long Tail Marketing	425
<i>Insight on Technology: The Long Tail: Big Hits and Big Misses</i>	426
<b>6.3 <i>Internet Marketing Technologies</i></b>	<b>428</b>
The Revolution in Internet Marketing Technologies	428
Web Transaction Logs	428
Supplementing the Logs: Cookies and Other Tracking Files	430
Databases, Data Warehouses, Data Mining, and Big Data	432
Databases	432
<i>Insight on Society: Every Move You Take, Every Click You Make, We'll Be Tracking You</i>	433
Data Warehouses and Data Mining	435
The Challenge of Big Data	436
Marketing Automation and Customer Relationship Management (CRM) Systems	437
<b>6.4 <i>Understanding the Costs and Benefits of Online Marketing Communications</i></b>	<b>440</b>
Online Marketing Metrics: Lexicon	440
How Well Does Online Advertising Work?	443
The Costs of Online Advertising	445
Marketing Analytics: Software for Measuring Online Marketing Results	447
<b>6.5 <i>Careers in E-commerce</i></b>	<b>449</b>
The Company	449
The Position: Digital Marketing Assistant	450
Qualifications/Skills	450
Preparing for the Interview	451
Possible First Interview Questions	451

6.6 *Case Study: Programmatic Advertising: Real-Time Marketing* 453

6.7 *Review* 458

- Key Concepts 458
- Questions 459
- Projects 460
- References 460

**7 SOCIAL, MOBILE, AND LOCAL MARKETING 464**

- Learning Objectives 464
- Pinterest Expands Around the Globe* 465
- 7.1 *Introduction to Social, Mobile, and Local Marketing* 468
  - From Eyeballs to Conversations 468
  - From the Desktop to the Smartphone and Tablet 468
  - The Social, Mobile, Local Nexus 469
- 7.2 *Social Marketing* 470
  - Social Marketing Players 471
  - The Social Marketing Process 472
  - Facebook Marketing 473
    - Basic Facebook Features 474
    - Facebook Marketing Tools 474
    - Starting a Facebook Marketing Campaign 478
    - Measuring Facebook Marketing Results 480
  - Twitter Marketing 482
  - Insight on Technology: Optimizing Social Marketing with Sprout Social* 483
    - Basic Twitter Features 485
    - Twitter Marketing Tools 485
    - Starting a Twitter Marketing Campaign 487
    - Measuring Twitter Marketing Results 488
  - Pinterest Marketing 489
    - Basic Pinterest Features 490
    - Pinterest Marketing Tools 490
    - Starting a Pinterest Marketing Campaign 493
    - Measuring Pinterest Marketing Results 495
  - Marketing on Other Social Networks: Instagram, Snapchat, and LinkedIn 496
  - The Downside of Social Marketing 498
- 7.3 *Mobile Marketing* 498
  - Overview; M-commerce Today 498
  - Insight on Society: Marketing to Children of the Web in the Age of Social Networks* 499
    - How People Actually Use Mobile Devices 501

	In-App Experiences and In-App Ads	502
	How the Multi-Screen Environment Changes the Marketing Funnel	503
	Basic Mobile Marketing Features	504
	The Technology: Basic Mobile Device Features	505
	Mobile Marketing Tools: Ad Formats	507
	Starting a Mobile Marketing Campaign	508
	<i>Insight on Business: Mobile Marketing Revs Up with 3D and Augmented Reality</i>	509
	Measuring Mobile Marketing Results	511
<b>7.4</b>	<b><i>Local and Location-Based Mobile Marketing</i></b>	<b>513</b>
	The Growth of Local Marketing	513
	The Growth of Location-Based (Local) Mobile Marketing	514
	Location-Based Marketing Platforms	515
	Location-Based Mobile Marketing: The Technologies	515
	Why Is Location-based Mobile Marketing Attractive to Marketers?	517
	Location-Based Marketing Tools	517
	A New Lexicon: Location-Based Digital Marketing Features	518
	Proximity Marketing with Beacons	519
	Starting a Location-Based Marketing Campaign	520
	Measuring Location-Based Marketing Results	521
<b>7.5</b>	<b><i>Careers in E-commerce</i></b>	<b>521</b>
	The Company	522
	The Position: Social Media Associate	522
	Qualifications/Skills	522
	Preparing for the Interview	523
	Possible First Interview Questions	523
<b>7.6</b>	<b><i>Case Study: ExchangeHunterJumper.com: Building an International Brand with Social Marketing</i></b>	<b>525</b>
<b>7.7</b>	<b><i>Review</i></b>	<b>531</b>
	Key Concepts	531
	Questions	533
	Projects	534
	References	534

	Learning Objectives	536
	<i>The Right to Be Forgotten: Europe Leads on Internet Privacy</i>	537
<b>8.1</b>	<b><i>Understanding Ethical, Social, and Political Issues in E-commerce</i></b>	<b>540</b>
	A Model for Organizing the Issues	541

Basic Ethical Concepts: Responsibility, Accountability, and Liability	543
Analyzing Ethical Dilemmas	545
Candidate Ethical Principles	546
<b>8.2 Privacy and Information Rights</b>	<b>547</b>
What Is Privacy?	547
Privacy in the Public Sector: Privacy Rights of Citizens	548
Privacy in the Private Sector: Privacy Rights of Consumers	549
Information Collected by E-commerce Companies	553
Key Issues in Online Privacy of Consumers	555
Marketing: Profiling, Behavioral Targeting, and Retargeting	555
Social Networks: Privacy and Self Revelation	558
Mobile Devices: Privacy Issues	559
Consumer Privacy Regulation and Enforcement: The FTC	560
Consumer Privacy Regulation: The U.S. Federal Communications Commission (FCC)	564
Privacy and Terms of Use Policies	564
Privacy Protection in Europe: The General Data Protection Regulation (GDPR)	566
Industry Self-Regulation	568
Technological Solutions	569
Privacy Protection as a Business	572
Privacy Advocacy Groups	573
Limitations on the Right to Privacy: Law Enforcement and Surveillance	574
<i>Insight on Technology: Apple: Defender of Privacy?</i>	576
<b>8.3 Intellectual Property Rights</b>	<b>579</b>
Types of Intellectual Property Protection	580
Copyright: the Problem of Perfect Copies and Encryption	581
Fair Use Doctrine	582
The Digital Millennium Copyright Act of 1998	583
Copyright Protection in the European Union	587
Patents: Business Methods and Processes	588
E-commerce Patents	589
Trademarks: Online Infringement and Dilution	590
Trademarks and the Internet	593
Cybersquatting and Brandjacking	593
Cyberpiracy	595
Metatagging	595
Keywording	596
Linking	597
Framing	597
Trade Secrets	598
Challenge: Balancing the Protection of Property with Other Values	598
<b>8.4 Governance</b>	<b>599</b>
Can the Internet Be Controlled?	599
Taxation	600

Net Neutrality	601
<i>Insight on Business: New Rules Extend EU Taxation of E-commerce</i>	602
Antitrust, Monopoly, and Market Competition in the Internet Era	605
<b>8.5 Public Safety and Welfare</b>	<b>605</b>
Protecting Children	606
Cigarettes, Gambling, and Drugs: Is the Web Really Borderless?	608
<i>Insight on Society: The Internet Drug Bazaar Operates Around the Globe</i>	609
<b>8.6 Careers in E-commerce</b>	<b>612</b>
The Company	612
Position: E-commerce Privacy Research Associate	613
Qualifications/Skills	613
Preparing for the Interview	614
Possible First Interview Questions	614
<b>8.7 Case Study: Are Big Tech Firms Getting “Too Big”?</b>	<b>616</b>
<b>8.8 Review</b>	<b>623</b>
Key Concepts	623
Questions	625
Projects	626
References	626

**9****ONLINE MEDIA 632**

Learning Objectives	632
<i>Spotify and Deezer: European Streaming Music Services Spread Around the Globe</i>	633
<b>9.1 Online Content</b>	<b>636</b>
Content Audience: Where Are the Eyeballs?	636
Content Market: Entertainment and Media Industry Revenues	639
<i>Insight on Society: Are Millennials Really All That Different?</i>	640
Online Content: Consumption, Revenue Models, and Revenue	643
Digital Rights Management (DRM) and Walled Gardens	645
Media Industry Structure	645
Media Convergence: Technology, Content, and Industry Structure	646
Technological Convergence	646
Content Convergence	646
Industry Structure Convergence	648
<b>9.2 The Online Publishing Industry</b>	<b>649</b>
Online Newspapers	649

From Print-centric to Digital First: The Evolution of Newspaper Online Business Models, 1995–2017	651
Online Newspaper Industry: Strengths and Challenges	654
<i>Insight on Business: Vox: Native Digital News</i>	660
Magazines Rebound on the Digital Platform	662
E-Books and Online Book Publishing	663
Amazon and Apple: The New Digital Media Ecosystems	665
E-book Business Models	666
Interactive Books: Converging Technologies	667
<b>9.3 The Online Entertainment Industry</b>	<b>667</b>
Home Entertainment: Television and Movies	671
<i>Insight on Technology: Hollywood and Big Tech: Let's Have Lunch</i>	677
Music	680
Games	683
<b>9.4 Careers in E-commerce</b>	<b>687</b>
The Company	687
Position: Digital Audience Development Specialist	687
Qualifications/Skills	688
Preparing for the Interview	688
Possible First Interview Questions	689
<b>9.5 Case Study: Netflix: How Does This Movie End?</b>	<b>691</b>
<b>9.6 Review</b>	<b>695</b>
Key Concepts	695
Questions	697
Projects	697
References	698

Learning Objectives	700
<i>LinkedIn: A Tale of Two Countries</i>	701
<b>10.1 Social Networks and Online Communities</b>	<b>703</b>
What Is an Online Social Network?	704
The Growth of Social Networks and Online Communities	705
Turning Social Networks into Businesses	707
Types of Social Networks and Their Business Models	709
<i>Insight on Society: The Dark Side of Social Networks</i>	710
Social Network Technologies and Features	713

<b>10.2 Online Auctions</b>	<b>715</b>
<i>Insight on Technology: Trapped Inside the Facebook Bubble?</i>	716
Benefits and Costs of Auctions	720
Benefits of Auctions	720
Risks and Costs of Auctions	720
Auctions as an E-commerce Business Model	721
Types and Examples of Auctions	722
When to Use Auctions (and for What) in Business	723
Auction Prices: Are They the Lowest?	724
Consumer Trust in Auctions	725
When Auction Markets Fail: Fraud and Abuse in Auctions	725
<b>10.3 E-commerce Portals</b>	<b>726</b>
The Growth and Evolution of Portals	727
Types of Portals: General-Purpose and Vertical Market	728
<i>Insight on Business: Verizon Doubles Down on Portals</i>	729
Portal Business Models	732
<b>10.4 Careers in E-commerce</b>	<b>733</b>
The Company	733
Position: Social Marketing Specialist	733
Qualifications/Skills	734
Preparing for the Interview	734
Possible First Interview Questions	734
<b>10.5 Case Study: eBay Evolves</b>	<b>736</b>
<b>10.6 Review</b>	<b>740</b>
Key Concepts	740
Questions	741
Projects	742
References	742

Learning Objectives	744
<i>Souq.com: The Amazon of the Middle East Gets Acquired by Amazon</i>	745
<b>11.1 The Online Retail Sector</b>	<b>748</b>
The Retail Industry	749
Online Retailing	750
E-commerce Retail: The Vision	751
The Online Retail Sector Today	752



<b>11.2 Analyzing the Viability of Online Firms</b>	<b>757</b>
Strategic Analysis	758
Financial Analysis	759
<b>11.3 E-commerce in Action: E-tailing Business Models</b>	<b>760</b>
Virtual Merchants	760
Amazon	762
The Vision	762
Business Model	762
Financial Analysis	764
Strategic Analysis—Business Strategy	764
Strategic Analysis—Competition	767
Strategic Analysis—Technology	768
Strategic Analysis—Social and Legal Challenges	768
Future Prospects	769
Omni-Channel Merchants: Bricks-and-Clicks	769
Catalog Merchants	771
Manufacturer-Direct	772
Common Themes in Online Retailing	773
<b>11.4 The Service Sector: Offline and Online</b>	<b>775</b>
<i>Insight on Technology: Big Data and Predictive Marketing</i>	776
<b>11.5 Online Financial Services</b>	<b>778</b>
Fintech	779
Online Banking and Brokerage	779
Multi-Channel vs. Pure Online Financial Services Firms	780
Financial Portals and Account Aggregators	781
Online Mortgage and Lending Services	781
Online Insurance Services	782
Online Real Estate Services	784
<b>11.6 Online Travel Services</b>	<b>785</b>
Why Are Online Travel Services So Popular?	785
The Online Travel Market	786
Online Travel Industry Dynamics	786
<b>11.7 Online Career Services</b>	<b>788</b>
<i>Insight on Society: Phony Reviews</i>	789
It's Just Information: The Ideal Web Business?	791
Online Recruitment Industry Trends	792
<b>11.8 On-Demand Service Companies</b>	<b>794</b>
<i>Insight on Business: Food Delivery on Demand in the Middle East</i>	795
<b>11.9 Careers in E-commerce</b>	<b>798</b>

The Company	798
Position: Associate, e-Commerce Initiatives	798
Qualifications/Skills	799
Preparing for the Interview	799
Possible First Interview Questions	800
<b>11.10 Case Study: OpenTable: Your Reservation Is Waiting</b>	<b>801</b>
<b>11.11 Review</b>	<b>804</b>
Key Concepts	804
Questions	807
Projects	807
References	808

## **12 B2B E-COMMERCE 810**

Learning Objectives	810
<i>Alibaba: China's E-commerce King</i>	811
<b>12.1 An Overview of B2B E-commerce</b>	<b>815</b>
Some Basic Definitions	817
The Evolution of B2B E-commerce	817
The Growth of B2B E-commerce	819
Potential Benefits and Challenges of B2B E-commerce	821
<b>12.2 The Procurement Process and Supply Chains</b>	<b>822</b>
<i>Insight on Society: Where's My iPad? Global Supply Chain Risk and Vulnerability</i>	823
Steps in the Procurement Process	825
Types of Procurement	825
Multi-Tier Supply Chains	826
Visibility and Other Concepts in Supply Chain Management	827
The Role of Existing Legacy Computer Systems and Enterprise Systems in Supply Chains	828
<b>12.3 Trends in Supply Chain Management and Collaborative Commerce</b>	<b>828</b>
Just-in-Time and Lean Production	829
Supply Chain Simplification	829
Supply Chain Black Swans: Adaptive Supply Chains	830
Accountable Supply Chains: Labor Standards	831
Sustainable Supply Chains: Lean, Mean, and Green	832
Electronic Data Interchange (EDI)	833
Mobile B2B	835
B2B in the Cloud	836
Supply Chain Management Systems	838
Blockchain and Supply Chain Management	839

Collaborative Commerce	840
<i>Insight on Technology: Blockchain Takes on the Diamond Supply Chain</i>	841
Collaboration 2.0: Cloud, Web, Social, and Mobile	844
Social Networks and B2B: The Extended Social Enterprise	844
B2B Marketing	845
<b>12.4 Net Marketplaces: The Selling Side of B2B</b>	<b>846</b>
Characteristics of Net Marketplaces	846
Types of Net Marketplaces	847
E-distributors	847
E-procurement	849
Exchanges	851
Industry Consortia	853
<b>12.5 Private Industrial Networks</b>	<b>856</b>
Objectives of Private Industrial Networks	857
Private Industrial Networks and Collaborative Commerce	858
<i>Insight on Business: Walmart's Private Industrial Network Supports Omni-channel Growth</i>	859
Implementation Barriers	861
<b>12.6 Careers in E-commerce</b>	<b>862</b>
The Company	862
Position: Junior Supply Chain Analyst	862
Qualifications/Skills	863
How to Prepare for the Interview	863
Possible First Interview Questions	863
<b>12.7 Case Study: Elemica: Cooperation, Collaboration, and Community</b>	<b>865</b>
<b>12.8 Review</b>	<b>870</b>
Key Concepts	870
Questions	873
Projects	874
References	874
<b>Index</b>	<b>877</b>