

Contents at a Glance

<i>Introduction</i>	1
<i>Book I: Introduction to Networking</i>	9
Chapter 1: Grasping the Main Concepts behind Networking	11
Chapter 2: Operating Systems and Networks	33
Chapter 3: Networking Hardware	43
<i>Book II: Setting Up Networks</i>	63
Chapter 1: Setting Up User Accounts on Computers	65
Chapter 2: Planning for Your Network	99
Chapter 3: Installing Network Adapters	117
Chapter 4: Setting Up and Configuring the Network	125
Chapter 5: Working with the “Brains” of Your Equipment	157
Chapter 6: Taking the Wire Farther	185
Chapter 7: Getting a Better Reach with Wireless	193
<i>Book III: Network Security</i>	219
Chapter 1: Addressing Internet Security	221
Chapter 2: Securing the Airwaves: It’s Possible	257
Chapter 3: Protecting Youngsters	275
<i>Book IV: Connecting and Sharing</i>	315
Chapter 1: Dealing with Your Network Connections	317
Chapter 2: Remote Connections	351
Chapter 3: Allowing Sharing of Files and More	381
Chapter 4: Sharing Files: Hosting a Folder Party	393
Chapter 5: Sharing a Printer: Spreading the Ink	407
Chapter 6: Other Sharing Options	423
Chapter 7: Accessing Shared Files and Folders	445
Chapter 8: Serving Files over the Internet	457
<i>Book V: Network Troubleshooting</i>	473
Chapter 1: Dealing with Connection and Performance Problems	475
Chapter 2: Fixing Sharing Issues	489
Chapter 3: Troubleshooting Methods and Tools	495
Chapter 4: Getting More Help	509

<i>Book VI: Networking Gadgets</i>	515
Chapter 1: Voice and Video	517
Chapter 2: Family Entertainment	535
Chapter 3: Traveling Gadgets	563
Chapter 4: Bluetooth Devices	575
Chapter 5: Network Magic: Ways to Manage Your Home Network	583
<i>Book VII: Wi-Fi Hotspots</i>	601
Chapter 1: Wi-Fi Hotspots, Hot Zones, and Cities	603
Chapter 2: Making Your Location a Wi-Fi Hotspot	615
Chapter 3: Using FON to Share or Get Wireless Internet Access	639
<i>Index</i>	657

Table of Contents

Introduction..... 1

About This Book.....	1
How This Book Is Organized.....	2
Book I: Intro to Networking.....	2
Book II: Setting Up Networks	3
Book III: Network Security.....	4
Book IV: Connecting and Sharing	4
Book V: Network Troubleshooting.....	6
Book VI: Networking Gadgets	6
Book VII: Wi-Fi Hotspots	7
Conventions Used in This Book	7
Icons Used in This Book.....	8
Where to Go from Here.....	8

Book 1: Introduction to Networking..... 9

Chapter 1: Grasping the Main Concepts behind Networking 11

Welcome to the World of Networking.....	11
Understanding the Multiple Ways to Network	13
Keeping it simple with wired (Ethernet) networks.....	13
Going mobile: Wireless (Wi-Fi) networks	16
Doing without a router: Computer-to-computer networks	20
Networking across power or phone lines	22
Mixing and matching network types.....	24
Summing up and comparing the network types	26
Checking to See Whether Your Computers Are Network Ready.....	27
Take a look at the PC tower	27
Check your laptop	27
Check your computer for a USB port	28
Find out what devices are listed in your computer	
Device Manager.....	28
Understanding the Wireless Flavors: A, B, G, or N.....	30

Chapter 2: Operating Systems and Networks 33

Knowing What to Expect from Newer Operating Systems.....	33
Network icon.....	34
Built-in wireless network utility.....	34
Built-in firewall.....	36

Getting Acquainted with Windows XP's Networking Interfaces	36
The Choose a Wireless Network window	36
Network connection status	37
Network connection properties	37
Using Windows Vista's Network and Sharing Center	37
Accessing the Network and Sharing Center	37
The network classification scheme	39
Support for nonbroadcasting wireless networks	39
The Mac OS X Networking Interfaces	39
Shortcuts from the network icon	40
The network window	40
The Sharing window	40
Networking with Ubuntu	41
Network icon	41
Connection Information window	41
Network settings	42
Shared Folders window	42

Chapter 3: Networking Hardware 43

Discovering What Connects You to the Internet: Modems	43
Getting a modem from your Internet provider	44
Getting your own	44
Checking out your modem	44
Distributing Internet with Routers	46
The router: Your network's courier	46
Your router enables sharing of your Internet connection	47
Your router provides your (DHCP) IP addresses	48
Routers can be wired or wireless	48
A router can (but doesn't have to) include an Internet modem	50
Your router's basic physical features	50
Untangling the Cables Used in Networking	52
The long-beloved Ethernet cable (Cat5)	52
Telephone-line cable	55
USB cables	55
Going Wireless with Access Points (APs)	56
Wireless routers and APs	56
Independent APs	56
Network expansion with APs	57
APs and wires	58
A, B, G, N standardization	58
The look of an AP	58
Connecting with Adapters (or NICs)	59
Wired and wireless adapters	59
An adapter's "form factor"	60
Not dependent on routers	60
The look of adapters	60

Book 11: Setting Up Networks 63

Chapter 1: Setting Up User Accounts on Computers 65

- Understanding User Account Types and Privileges65
 - Windows account types66
 - Windows Vista User Account Control (UAC) feature —
for extra security67
 - Account types in Mac OS X and Leopard70
 - Account types in Ubuntu.....71
- Adding, Removing, and Editing Accounts.....71
 - Accessing user account settings72
 - Adding user accounts74
 - Removing user accounts79
 - Editing user accounts83
 - Changing the global login preferences85
 - Enabling and disabling the Guest account.....91
- Creating and Using a Password Reset Disk (for Windows XP
and Vista Only)94
 - Creating a reset disk.....95
 - Using the password reset disk.....96
- Changing Advanced Account Settings.....96

Chapter 2: Planning for Your Network 99

- Choosing Your Internet Connection99
 - Connecting with lightning speed through cable100
 - Saving money with DSL100
 - Connecting through Wireless ISP (WiMAX or Wi-Fi).....101
 - Going with satellite: Internet in the boondocks102
 - Going mobile with cellular broadband.....102
 - Discovering the popular features that ISPs offer104
- Determining Your Hardware Needs105
 - A modem for your Internet connection.....105
 - Adapters to connect to the network.....106
 - A router to create the network107
 - Ethernet cabling for wiring needs107
- Making Choices Based on Wireless and Wired
Networking Standards.....110
- Putting It All Together: Sample Network Plans110
 - Laying out the wired network.....111
 - Going the wireless route.....112
 - Computer-to-computer network.....113
 - Power- or phone-line network115

Chapter 3: Installing Network Adapters 117

- Preparing to Install Wired and Wireless Adapters.....117
- Installing the Software and Drivers.....118

Inserting the Adapter.....	119
A PCI adapter goes inside your computer	119
USB adapter plugs right in	121
Laptop adapters insert into the slot	122
Using Power-Line and Phone-Line Adapters	123

Chapter 4: Setting Up and Configuring the Network125

Getting Physical with the Installation.....	126
Installing the router.....	126
Laying and connecting the cables.....	128
Plugging into power lines	128
Setting Up and Configuring the Network.....	129
Setting up your wired or wireless router	129
Configuring your Internet connection for nonrouter networks.....	136
Sharing the Internet for nonrouter networks	141
Creating a wireless computer-to-computer network.....	144
Bridging network connections.....	150
Organizing into a Workgroup and Naming PCs	152
Setting the Workgroup and Computer Name in Windows 2000 and XP	152
Setting the Workgroup and Computer Name in Windows Vista.....	153
Setting the Workgroup and Computer Name in Mac OS X.....	154
Setting the Workgroup and Computer Name in Ubuntu.....	155

Chapter 5: Working with the “Brains” of Your Equipment157

Upgrading Firmware: Keep Your Network Components Up-to-Date.....	158
Verifying the model number of your hardware	160
Checking the firmware version of your hardware.....	161
Discovering (and getting) the current firmware release.....	163
Preparing for a firmware update	164
Updating your hardware’s firmware	165
Upgrading Drivers: Ensuring That Your Network Adapters Are Current.....	167
Verifying the model number of your adapter	168
Checking the driver version of your adapter	170
Finding the current driver release	171
Preparing for a driver update	172
Updating your adapter’s driver	172
Backing Up Configuration Settings	175
Getting More Features (for free) with Aftermarket Firmware	177
Discovering features of aftermarket firmware.....	177
Using the DD-WRT firmware.....	179
Updating the Operating System to Patch Security Holes	183

Chapter 6: Taking the Wire Farther185

- Using Your Electrical System to Connect Distant Devices.....185
- Adding Wireless Access to Your Wired Network186
 - Adding access points (APs)186
 - Replacing your wired router with a wireless one.....187
- Using a Wireless Bridge to Link Wires Together188
 - Shopping for your wireless bridge or AP189
 - Making the bridge or AP work with your network.....189
 - Doing the physical installation190
 - Configuring the wireless bridge (or AP).....190

Chapter 7: Getting a Better Reach with Wireless193

- Going Cheap with Aftermarket Antennas.....193
 - Your “replace antenna” dilemma195
 - Choosing your aftermarket antennas197
 - Replacing your antennas198
- Renovating Your Network with Wireless N198
- Wireless Extenders: Extending Range Inexpensively200
- Adding Access Points (APs): True Coverage Increase208
 - Deciding whether to run Ethernet cables or use your
existing power lines.....208
 - Planning and preparing210
 - Setting up your backend connection213
 - Making the AP work with your network214
 - Setting up the AP215

***Book III: Network Security*.....219**

Chapter 1: Addressing Internet Security221

- Blocking Internet Hackers Using Firewalls221
 - The big picture behind what firewalls do222
 - What a firewall actually blocks: Ports223
 - Getting a firewall to protect yourself223
 - Configuring the Windows Firewall224
 - Configuring Mac OS X’s firewall.....227
 - Installing and setting up Ubuntu’s firewall.....229
- Blocking Viruses, Spyware, and Adware with Software231
 - The wrath of computer infections232
 - Protecting your computers against infections232
- Controlling Your Spam or Junk E-Mail233
 - Problems behind spam and junk e-mail233
 - Preventative measures against spam and junk e-mail.....234
 - Stopping spam when you’ve had enough235

Protecting Yourself Against Phishing Scams	236
Watch out for imposters.....	237
Stories that reel you in.....	237
Spotting the bait of phishers	238
Reporting the catch	239
Checking for phishing licenses	239
Using Internet Explorer's phishing filter	240
Configuring the phishing filter in Firefox 2.0	241
Using Internet Security Software Suites: On Each Computer.....	242
Common protection provided by software suites	242
Bonus protections and features	242
Getting and using an Internet security suite.....	243
Using Internet Security Hardware Solutions for Your Entire Network	243
Keeping Your OS Free of Security Holes.....	244
Upgrading to a newer OS version.....	244
Manually updating Windows.....	245
Setting up automatic updates for Windows	246
Updating Mac OS X.....	246
Keeping Ubuntu up-to-date	247
Blocking Those Annoying Pop-Ups.....	248
Stopping them with pop-up blockers	248
Using Internet Explorer's pop-up blocker	249
Blocking pop-ups in Safari 3.....	251
Using Firefox 2.0's pop-up blocker	251
Preventing Security Issues When Web Browsing.....	251
Verify the security settings of your Web browser.....	252
Check your Web browser's privacy settings.....	253
Discovering the "bad" sites that can cause havoc.....	254
Deleting your Web browsing history and temporary Internet files	254

Chapter 2: Securing the Airwaves: It's Possible 257

Discovering Wi-Fi Security Concerns.....	257
Looking at What an Eavesdropper Sees.....	258
Securing Your Wireless Network.....	260
Encrypting Your Wi-Fi.....	261
Using security buttons.....	262
Manually setting up a wireless router: Choosing an encryption method.....	263
Configuring the encryption method's settings.....	265
Completing your configuration	266
Setting up the adapters	267

Performing the Necessary Initial Changes to Your	
Wireless Network.....	267
Specifying your own network name.....	268
Changing the default password.....	269
Hiding Your Network: Disabling Broadcasting.....	270
Using MAC Address Filtering.....	272

Chapter 3: Protecting Youngsters 275

Dangers Kids May Face on the Computer.....	275
Using Common Sense.....	276
Deciphering Internet lingo and talk.....	277
Discover the gaming ratings.....	281
Other steps to take.....	282
Advanced Protection: Parental Controls.....	283
Internet rating systems.....	284
Finding a parental control system.....	284
Using Windows Vista’s Parental Controls.....	286
Your controlling capabilities with Vista.....	286
Your monitoring capabilities in Vista.....	288
Getting started with the parental controls in Vista.....	290
Enforcing limits and changing settings.....	291
Using Parental Controls in Mac OS X Leopard.....	299
Enabling Parental Controls for Accounts.....	300
Controlling what applications and settings users can access.....	300
Filtering dictionary and Web content.....	301
Deciding whom the user can communicate with	
in Mail and iChat.....	301
Imposing time limits on computer usage.....	302
Seeing the activity of the account.....	302
Using K9 Web Protection.....	302
Downloading and installing K9.....	304
Opening Blue Coat K9 Web Protection Administration.....	305
Configuring the Internet filter settings.....	306
Viewing your children’s Internet activity.....	311

Book IV: Connecting and Sharing 315

Chapter 1: Dealing with Your Network Connections 317

Using Network Icons to Gain Quick Access to	
Network Settings and Options.....	317
Flipping the Switch on Adapters.....	320
Enabling/disabling an adapter in Windows 2000.....	320
Enabling/disabling an adapter in Windows XP.....	320
Enabling/disabling an adapter in Windows Vista.....	320

Enabling/disabling an adapter in Mac OS X Tiger and Leopard	321
Using Ubuntu	321
Connecting to Wireless Networks	321
Connecting by using your manufacturer's utility.....	322
Switching between the Manufacturer's and Windows Utility	323
Connecting to wireless networks using Windows XP	324
Connecting to wireless networks using Windows Vista	325
Connecting to wireless networks using Mac OS X Tiger and Leopard	326
Connecting to wireless networks using Ubuntu.....	327
Managing Your Wireless Network Connection Preferences	327
Accessing network preferences in Windows XP.....	328
Accessing network preferences in Windows Vista.....	331
Accessing network preferences in Mac OS X Tiger.....	333
Accessing network preferences in Mac OS X Leopard	335
Accessing network preferences in Ubuntu	336
Checking Network Connection Status	337
Checking connection status in Windows 2000	337
Checking connection status in Windows XP.....	338
Checking connection status in Windows Vista.....	339
Checking connection status in Mac OS X Tiger.....	340
Checking connection status in Mac OS X Tiger and Leopard.....	342
Checking connection status in Ubuntu	343
Assigning Static IP Addresses to your Network Adapters	343
Assigning a static IP address in Windows 2000	344
Assigning a static IP address in Windows XP	345
Assigning a static IP address in Windows Vista	345
Assigning a static IP address in Mac OS X Tiger and Leopard	346
Assigning a static IP address in Ubuntu	346
Enabling DHCP for Your Network Adapters.....	347
Enabling DHCP in Windows 2000.....	348
Enabling DHCP in Windows XP	348
Enabling DHCP in Windows Vista.....	348
Enabling DHCP in Mac OS X Tiger and Leopard.....	349
Enabling DHCP in Ubuntu.....	349

Chapter 2: Remote Connections 351

Control Your PC from Across the Room or Anywhere in the World.....	351
Hosting a Windows Remote Desktop connection	351
Enabling the Remote Desktop in Windows XP	352
Enabling the Remote Desktop in Windows Vista	353
Enabling Screen Sharing in Mac OS X Leopard.....	354
Enabling Ubuntu's remote desktop feature	356
Connecting to a Windows remote desktop	357

Connecting to a Mac’s shared screen	360
Connecting to an Ubuntu remote desktop from Ubuntu.....	361
Remotely connecting over the Internet.....	362
Securely Accessing Your Files from Anywhere Over the Internet	362
Setting up a VPN server using Windows XP	363
Setting up a VPN server using Windows Vista.....	364
Telling your router which computer is hosting the VPN	365
Connecting to a VPN from Windows XP	365
Connecting to a VPN from Windows Vista	366
Connecting to a VPN from Mac OS X	369
Connecting to a VPN from Ubuntu.....	371
Letting Remote Desktop or VPN Traffic through Your Firewall	373
Setting up Your Router for Access through the Internet	375
Logging In to Your Router over the Internet.....	377
Getting the router ready for remote administration.....	377
Logging in to the router.....	379

Chapter 3: Allowing Sharing of Files and More381

Telling Windows It’s Okay to Share.....	381
Your Sharing Options in Windows	384
Setting Up Sharing for the Mac.....	385
Sharing Among Windows and Macs.....	386
Putting Ubuntu into the Network Mix	387
Opening the Sharing Gates of the Firewall in Windows XP and Vista	389
Sharing and the Mac’s Firewall.....	391
Opening Third-Party Firewalls.....	392

Chapter 4: Sharing Files: Hosting a Folder Party393

Sharing a Folder in Windows 2000	393
Sharing a Folder in Windows XP	394
Sharing a Folder in Windows Vista	397
Sharing in Mac OS X.....	400
Sharing Folders in Ubuntu	402
Remembering What You’ve Shared.....	403
Using Windows Vista’s new shared listings	403
Viewing the list of shared folders in Windows 2000 and XP	404
Seeing what you’ve shared in Mac OS X Leopard	405
Seeing what you’ve shared in Ubuntu	406

Chapter 5: Sharing a Printer: Spreading the Ink407

Sharing Printers.....	408
Sharing printers in Windows 2000	408
Sharing a printer in Windows XP.....	408
Sharing a printer in Windows Vista.....	408

Sharing a Printer in Mac OS X.....	410
Sharing a printer in Leopard.....	410
Sharing a printer in Tiger.....	411
Sharing a Printer in Ubuntu.....	412
Using a Print Server or Network-Ready Printer.....	413
Adding and Using Shared Printers in Windows.....	414
Adding shared printers in Windows 2000.....	414
Adding shared printers in Windows XP.....	415
Adding shared printers in Windows Vista.....	417
Adding a shared printer directly from the network.....	418
Editing shared printer properties and preferences.....	419
Adding Shared Printers in Mac OS X.....	419
Adding shared printers in Leopard.....	420
Adding a shared printer in Tiger.....	421
Shared Printers in Ubuntu.....	422
Chapter 6: Other Sharing Options.....	423
Hosting a Drive to Share Everything.....	423
Sharing a drive in Windows 2000.....	423
Sharing a drive in Windows XP.....	425
Sharing a drive in Windows Vista.....	427
Sharing a drive in Mac OS X.....	428
Sharing a drive in Ubuntu.....	429
Network Storage for Sharing and Back-up Flexibility.....	429
Creating Shortcuts with Mapped Drives.....	433
Mapping shared drives in Windows.....	433
Mounting shared drives in Mac OS X.....	435
Mounting shared drives in Ubuntu.....	438
Creating a Hidden Share.....	438
Making Shared Folders Available (Offline) Anytime.....	439
Setting up offline access in Windows 2000.....	440
Enabling offline access in Windows XP.....	441
Enabling offline access in Windows Vista.....	443
Chapter 7: Accessing Shared Files and Folders.....	445
Browsing to Shared Resources in Windows.....	445
Accessing shared resources in Windows 2000.....	446
Accessing shared resources in Windows XP.....	446
Accessing shared resources in Windows Vista.....	448
Accessing a Mac or Ubuntu computer from Windows.....	448
Browsing to Shared Resources in Mac OS X.....	449
Browsing to Shared Resources in Ubuntu.....	450
Manually Accessing a Computer's Shared Resources.....	450
Accessing Hidden Shares.....	453
Accessing and Working with Offline Files.....	453
Moving and Editing Shared Files and Folders among Computers.....	454

Chapter 8: Serving Files over the Internet457

- Creating Your Own Web Server457
 - Getting a free Web site address458
 - Purchasing your own domain name460
 - Setting up a Web server (Apache)463
 - Configuring your firewall and router463
 - Testing the Web server464
 - Using the Web server464
- Creating Your Own FTP Server465
 - Setting up the FTP server466
 - Configuring your firewall and router467
 - Connecting to the FTP server468
- Letting Servers through Your Firewall.....469
- Letting Server Access through Your Router470
- Things to Remember When Serving472

Book V: Network Troubleshooting473

Chapter 1: Dealing with Connection and Performance Problems475

- Fixing Wireless Connections475
 - Addressing adapter problems476
 - Dealing with interference478
 - Addressing range issues481
- Reconnecting Wired (Ethernet) Connections.....482
- Fixing Internet and Limited or No Connectivity Issues482
- Reconnecting Wired (Ethernet) Connections.....483
- Fixing Internet and Limited or No Connectivity Issues484

Chapter 2: Fixing Sharing Issues489

- Troubleshooting and Fixing Sharing Issues489
 - Check to see whether computers are connected.....489
 - Try to manually access shares490
 - Verify your firewall settings490
 - Check the network location in Windows Vista491
 - Reset your network adapter492
 - Reboot your computers492
 - Reboot your network492
 - Verify that sharing is enabled by your operating system492
 - Check computer network names and Workgroups492
 - Reinstall your adapter492
- Getting a Shared Printer Back Online493
- Accessing Mac and Ubuntu Computers from Windows493

Chapter 3: Troubleshooting Methods and Tools495

Discovering IP and MAC Addresses of Devices.....495
 Locating your Internet (WAN) addresses495
 Finding the IP address of your infrastructure device497
 Finding the MAC address of your router, access point,
 or wireless extender499
 Finding the IP or MAC address for your computers
 and network adapters500
 Finding the IP or MAC address for media players, VoIP
 phones, and more501
 Discovering whether you have a dynamic or static
 Internet IP address503
Getting Around Forgotten Passwords503
Resetting Your Router to Default Settings504
Finding the Wireless Standard (A, B, G, or N) You’re Using.....505
Pinging: Finding the Broken Link506

Chapter 4: Getting More Help509

Getting Tech Support from the Manufacturer509
Doing Some Google-ing.....511
Referencing Online Publications511
Asking for Help from Peers Online: Hitting the Forums512

Book VI: Networking Gadgets.....515

Chapter 1: Voice and Video517

Wi-Fi and VoIP Phones: Skype, Vonage, iPhone, and More517
 Your digital voice options518
 Choosing a digital phone solution524
 Setting up your digital phone solution525
 Tips on using VoIP and Wi-Fi phones528
Video Cameras: For Surveillance528
Video Conferencing: Face-to-Face Over the Web530
 Choosing your video conferencing system.....531
 Setting up your video conferencing system.....533

Chapter 2: Family Entertainment535

Sending and Sharing Photos with Digital Cameras535
 Options to make your digital camera wireless537
 Selecting your digital camera wireless solution.....539
Network Media Players: Stream Media to Your TV.....539
 Choosing your media player541
 Setting up your media player.....542
 Tips on using media players543

TiVo Networking: Stream Media to Your TV and More.....	544
Basic TiVo service	544
TiVo's online and networking features	546
Setting up TiVo on your network.....	548
Using the networking features of TiVo.....	550
Digital Picture Frames: Showcasing Your Photos	555
Playing Online with Wireless Gaming Routers and Adapters.....	556
Your network gaming options.....	558
Choosing your network gaming devices	559
Setting up your gaming devices	560
Chapter 3: Traveling Gadgets563
Travel Routers: Taking Wireless with You	563
Shopping for a travel router.....	564
Setting up your travel router	565
Taking Home Entertainment Anywhere with Sling Media.....	566
How Sling Media works.....	567
Your Slingbox options.....	569
Setting up your Sling Media system.....	571
Wi-Fi Hotspot Finders	573
Chapter 4: Bluetooth Devices575
How You Can Use Bluetooth	575
Synching data and taking your peripherals wireless to the office.....	576
Streaming music and other data in your car	576
Going wireless with your cell phone accessories and transfers	577
Saving time and hassle with your digital photos	577
Streaming and transferring music and audio easily	577
Getting Bluetooth Connectivity.....	578
Devices loaded with Bluetooth.....	578
Adapters to make your device Bluetooth-enabled	579
Shopping for Bluetooth devices and adapters	580
Synchronizing Your Cell Phone or PDA with Your PC	580
Chapter 5: Network Magic: Ways to Manage Your Home Network583
Seeing What's So Magical about Network Magic.....	583
Getting Started with Network Magic.....	587
Using and Unleashing the Magic	593
Tour of the software.....	593
Taking advantage of add-ons	599

Book VII: Wi-Fi Hotspots601

Chapter 1: Wi-Fi Hotspots, Hot Zones, and Cities603

Understanding Wi-Fi Hotspots and Hot Zones	603
Finding Wi-Fi Hotspots	604
Keep your eye out for signs	604
Check online from your home computer or while on the go.....	605
Check your network list	606
Use Wi-Fi finders	606
Sign up for reliable access.....	607
Finding Municipal Networks	607
Local media outlets	608
Online news sites.....	608
Connecting to Wi-Fi Hotspots	608
Securing Your Hotspot Connections.....	609
Securing your real-time traffic	609
Protecting your computer.....	612
Watching out for fake hotspots	612
Sending E-Mail on Hotspots	613

Chapter 2: Making Your Location a Wi-Fi Hotspot615

Weighing the Benefits and Costs of Having a Wi-Fi Hotspot.....	615
The benefits	616
What'll it cost you?.....	616
Understanding What Makes Your Location a Wi-Fi Hotspot	617
Deciding Whether to Charge a Fee.....	618
Choosing Your Hotspot Hardware	619
Configuring Your Hotspot	622
Going through the important settings	622
Verifying that your advanced settings are set for hotspot use.....	627
Setting up time restrictions and remote access (optional)	632
Getting Signage: Pull In the Public	635
Listing Your Hotspot in Directories to Attract Hotspot Searchers.....	636

Chapter 3: Using FON to Share or Get Wireless Internet Access . . .639

Understanding FON Profile Types.....	640
Choosing among Hardware Options to Make Your Location a FON Spot.....	641
Preparing Your Own Wireless Router	644
Obtaining a FON-supported router and the FON firmware.....	644
Flashing your router with the FON firmware.....	645
Configuring Your FON Spot	651
Personalizing Your FON Spot.....	654
Tips on Being a FON Spot.....	655

Index.....657