

Contents at a Glance

<i>Introduction</i>	1
<i>Book I: Digital Photography</i>	5
Part I: Getting Ready for Digital Photography	7
Chapter 1: Becoming a Digital Photography Maven	7
Chapter 2: Choosing the Right Camera	13
Chapter 3: Solving the Computer Side of the Digital Equation.....	31
Chapter 4: Connecting the Camera and Computer	43
Chapter 5: Choosing a Printer and Scanner.....	61
Chapter 6: Accessorizing Your Digital Camera.....	73
Part II: Snap To! Shooting Great Pictures	87
Chapter 7: Understanding Photo Composition	87
Chapter 8: Moving into Close-Up Photography.....	107
Chapter 9: Photographing People	123
Chapter 10: Shooting for Publication.....	165
Chapter 11: Sports and Action Photography.....	189
Chapter 12: Travel Photography	213
Part III: Editing with Photoshop Elements	243
Chapter 13: Comparing Photoshop Elements to Other Image Editors.....	243
Chapter 14: Making Selections.....	261
Chapter 15: Brushing Away Your Digital Images' Imperfections	269
Chapter 16: Restoring Images	275
Chapter 17: Correcting Faded, Funny, and Funky Colors	287
Chapter 18: Restoring and Enhancing Photos with Filters and Special Effects	293
Part IV: Organizing, Printing, and Sharing Your Pictures	303
Chapter 19: Storing and Organizing Your Digital Photos	303
Chapter 20: Printing Your Final Result	313
Chapter 21: Sharing Pictures on the Web.....	321
<i>Book II: Digital Movies</i>	331
Part I: Getting Ready for Video	333
Chapter 1: Introducing Digital Video	333
Chapter 2: Choosing a Camcorder	341
Chapter 3: Preparing Your Computer for Video	353
Chapter 4: Getting the Right Accessories	373
Part II: Action! Shooting Fun Footage	383
Chapter 5: Shooting Great Digital Video.....	383
Chapter 6: Importing Video Clips.....	409
Chapter 7: Importing Audio	429
Part III: The Cutting Room Floor: Editing Your Video	441
Chapter 8: Choosing Your Video-Editing Software.....	441
Chapter 9: Basic Video Editing	449
Chapter 10: Adding Transitions and Titles	471

Chapter 11: Using Special Effects in iMovie and Adobe Premiere Pro	489
Chapter 12: Adding Audio to the Mix	519
Part IV: Outputting Your Movies.....	529
Chapter 13: Exporting Digital Video to Tape	529
Chapter 14: Putting Your Movies on the Internet.....	539
Part V: Filmography Tips.....	555
Chapter 15: Video Preproduction: Planning, Storyboarding, and Scripting	555
Chapter 16: Digital Video Production Tips.....	569
<i>Book III: Digital Music</i>	<i>583</i>
Part I: Transforming Your Computer into a Music Machine	585
Chapter 1: Digital Music Hath Charms	585
Chapter 2: Using Your Computer as a Music Platform	599
Chapter 3: Playing MP3 Files on Your Computer and Home Stereo	619
Chapter 4: Internet Radio on Your Computer	637
Chapter 5: Attending Internet Concerts	649
Part II: Getting Music on Your Hard Drive.....	655
Chapter 6: Ripping CDs into MP3s	655
Chapter 7: Choosing an Online Music Vendor	679
Chapter 8: Buying Music with iTunes	687
Part III: Organizing Your Music.....	693
Chapter 9: Downloading and Editing Song Information	693
Chapter 10: Organizing Your iTunes Music Library.....	701
Part IV: Using a Portable Music Player.....	711
Chapter 11: Choosing a Portable Music Player	711
Chapter 12: Syncing an iPod to Your Mac	723
<i>Book IV: CD & DVD Recording.....</i>	<i>731</i>
Part I: Shake Hands with Your Recorder.....	733
Chapter 1: Optical Storage (Or It's All in the Pits)	733
Chapter 2: Buying Your Recording Beast	751
Chapter 3: DVD Is the Cat's Meow.....	771
Chapter 4: Poof! You're a Computer Technician	781
Part II: Measure Twice, Cut Once: Preparing for Recording.....	797
Chapter 5: Choosing Recording Software.....	797
Chapter 6: Preparing Your Computer for CD and DVD Recording.....	807
Chapter 7: Making Choices Before Your Recording Session.....	823
Part III: Starting the Recording Process.....	837
Chapter 8: Taking Easy Media Creator for a Spin	837
Chapter 9: Toasting Mac Discs	851
Chapter 10: Burning Data with Drag-to-Disc	863
Part IV: Meeting Your Data Storage Needs	873
Chapter 11: Heavy-Duty Recording	873
Chapter 12: Burning Large Files to DVD	885
<i>Index.....</i>	<i>895</i>

Table of Contents

Introduction	1
What's in This Book, Anyway?	1
What Makes This Book Special	2
Information that's easy to find.....	2
A task-oriented approach.....	2
The author's opinion.....	3
A Greatest Hits Collection.....	3
Foolish Assumptions	3
Conventions Used in This Book	4
Icons Used in This Book.....	4
Book 1: Digital Photography	5
Part I: Getting Ready for Digital Photography	7
Chapter 1: Becoming a Digital Photography Maven	7
Knowing What Equipment You Need.....	7
Minimum and Maximum Specs	9
Taking Great Digital Shots	10
Understand how your camera works	10
Know some photography fundamentals	10
Find out how to use an image editor	11
Master a scanner	11
Making Any Photo Digital.....	12
Printing Your Final Pictures	12
Chapter 2: Choosing the Right Camera	13
Choosing a Camera Category	14
Evaluating Your Lens Requirements.....	14
Understanding How Lenses Work.....	16
Magnifications and focal lengths.....	17
Lens apertures	18
Focus range	20
Exposure controls	20
Choosing Your Resolution	23
Choosing Your View	25
LCD viewfinders.....	25
Optical viewfinders	26
Hybrid viewfinders.....	27
Viewfinders with vision correction	28
Considering Your Storage Options	28
No Flash in the Pan: Determining Your Lighting Needs	29
Checking Out Ease of Use	29
Chapter 3: Solving the Computer Side of the Digital Equation	31
Hardware Wars Revisited.....	31
What Equipment Do You Need?	35
Determining how much memory you need.....	35
Choosing local storage	36

Archiving and backing up.....	37
Avoiding microprocessor no-brainers.....	40
Determining what's most important.....	40
Choosing pointing devices.....	42
Chapter 4: Connecting the Camera and Computer	43
Making the Connection between Camera and Computer	43
Getting wired up.....	44
Memory cards and disks.....	50
Transferring Images from Camera to Computer.....	55
Transferring pictures using camera utility software.....	55
Copying files to your hard drive.....	56
Importing images into image-editing software.....	58
Chapter 5: Choosing a Printer and Scanner	61
Why You Want Prints.....	61
Choosing a Printer for Digital Photography.....	62
Let somebody else do it.....	63
Laser printers.....	63
Ink-jet printers.....	63
Dye-sublimation printers.....	64
Other printers.....	64
Choosing a Scanner.....	64
Types of scanners.....	66
Scanner prices and features.....	66
What scanner features do you need?.....	68
Resolution mythconceptions.....	71
Color-depth confusion.....	72
Chapter 6: Accessorizing Your Digital Camera	73
Getting Support from Tripods.....	73
Types of tripods.....	76
Scrutinizing tripod features.....	76
Checking out tripod alternatives.....	79
Making Good Use of an Electronic Flash.....	79
Types of electronic flash units.....	80
What to look for in a photographic slave flash.....	83
Lighting/flash accessories.....	84
Choosing a Camera Bag.....	84
Acquiring Other Useful Devices.....	84
Filter holders.....	84
A second camera.....	85
Cleaning kits.....	85
Waterproof casings and housings.....	85
Filters.....	86
Part II: Snap To! Shooting Great Pictures.....	87
Chapter 7: Understanding Photo Composition	87
Photo Composition: The Big Picture.....	87
Visualizing a Concept for Your Picture.....	88
What do you want your image to say?.....	89
Where will it be used?.....	89
Who are you creating the image for?.....	90



Selecting a Center of Interest.....	90
Narrowing down your subject matter	90
Choosing one main subject.....	91
Using secondary subjects	93
Choosing an Orientation	93
Arranging Your Subjects	96
Choosing subject distance	96
Optimizing backgrounds	97
The Rule of Thirds	98
Placing important objects at imaginary junction points.....	99
When to break the rule	99
Some corollaries.....	100
Using Straight Lines and Curves	101
Balancing an Image	103
Framing an Image	104

Chapter 8: Moving into Close-Up Photography107

What's Macro Photography?	107
Why Digital Macro Photography Is Cool.....	108
Picking a Place to Shoot	109
Setting Up Your Macro Studio	110
Background check.....	111
Visible means of support.....	113
Lighting equipment	114
Other equipment	116
Shooting Tips for Macro Photography.....	118
Setting up your subject and background	118
Setting up your camera	118
Lights, please	119
Ready . . . aim . . .	119
Fire!.....	121

Chapter 9: Photographing People123

Capturing Satisfying Portraits	124
Shooting on Location or in the Studio.....	125
Setting Up an Informal Portrait Studio.....	127
Choosing Backgrounds.....	128
Selecting supports for lights, camera, and subjects.....	129
Basic lighting equipment.....	131
Professional studio lighting	134
Lighting gadgets	135
Lighting Basics	141
Using multiple light sources	141
Arranging a multiple-light setup.....	142
Basic Lighting Techniques	149
Advanced Lighting Techniques	149
Short lighting	150
Broad lighting	151
Butterfly lighting.....	151
Backlighting.....	153
Taking Your First Portraits.....	155
Shooting the Portrait	158
Posing your subjects.....	158
Arranging your lighting.....	161
Taking the picture	161
Advantages of Digital Cameras.....	162

Chapter 10: Shooting for Publication	165
Finding Outlets for Print Publication.....	165
Local Newspapers.....	167
Understanding what newspapers need	168
Working as a professional newspaper photographer	170
Magazines and Magazine-Like Markets	172
Making contact	175
Submitting photos.....	176
Getting model releases	177
Taking Photos for Publication	178
Understanding group photography basics	178
Managing the group	178
PR photography.....	179
Writing cutlines.....	184
Preparing the cutline for submission	185
Submitting the photo	185
Follow up	186
Product Photography	186
Product shot opportunities	187
Product demo shots.....	187
Chapter 11: Sports and Action Photography	189
Choosing Your Weapons	189
Digital camera features and action photography.....	191
Digital cameras and latency.....	194
Taking Great Sports Photos	196
Choosing your sport and your spot.....	197
Winter sports: a special case.....	202
Taking Your First Action Photo	203
Be prepared.....	203
Setting your ISO speed	203
Understanding how to stop action	204
Stopping action with slow shutter speeds.....	205
Panning	206
Action approaching the camera	207
Using blur creatively.....	208
Taking the Picture	209
Capturing great sports moments	209
Setting up for predictable action.....	210
Shooting action sequences	210
Capturing the fans.....	212
Chapter 12: Travel Photography	213
Choosing Equipment	213
Selecting a camera for your needs.....	213
Choosing key camera features.....	216
Choosing lenses for travel.....	217
Considering a tripod	217
Choosing an electronic flash.....	218
Selecting a camera bag	219
Keeping your camera powered.....	221
Other useful devices	222
Getting Ready to Go on the Road.....	224
Meeting Your Storage Requirements	224

Tried-and-True Travel Photography Techniques.....	225
Shooting scenics.....	225
Capturing monuments and architecture.....	227
Shooting panoramas.....	230
Shooting adventure sports.....	231
Photographing people.....	233
Capturing people and their places.....	234
Documenting Your Trip.....	236
Varying your shots.....	236
Composing your shots.....	237
Getting organized.....	238
Part III: Editing with Photoshop Elements.....	243
Chapter 13: Comparing Photoshop Elements to Other Image Editors.....	243
Looking at Popular Image Editors: The Basics.....	243
Adobe Photoshop CS — Alone at the Top.....	245
What’s good about it.....	245
What’s not so good.....	246
What you can do with it.....	246
Where to get it.....	248
Second-Tier Image Editors.....	248
Adobe Photoshop Elements.....	248
Corel PHOTO-PAINT.....	250
Jasc Paint Shop Pro.....	252
Ulead PhotoImpact.....	254
Third-Tier Image Editors.....	256
Microsoft Picture It!.....	256
Roxio PhotoSuite.....	258
Chapter 14: Making Selections.....	261
Making Simple Selections with the Marquee Tools.....	261
Selecting geometric shapes.....	261
Adding to, reducing, and combining selections.....	262
Snagging Irregular Shapes with the Lasso Tools.....	264
Selecting freeform shapes.....	264
Selecting magnetically.....	265
Abracadabra! The Magic Wand Tool.....	267
Making and adjusting selections based on color.....	267
Controlling the magic.....	267
Using the Selection Brush Tool.....	267
Using the Select Menu.....	268
Chapter 15: Brushing Away Your Digital Images’ Imperfections.....	269
Working with Brushes and Pencils.....	269
Painting with the Brush tool.....	270
Working with the Pencil tool.....	270
Customizing Your Brushes and Pencils.....	272
Chapter 16: Restoring Images.....	275
Adding Light and Shadows.....	276
Using the Dodge tool to lighten tones.....	276
Burning your image to darken areas.....	276

Using Smudging, Sharpening, and Blurring Tools.....	277
Finger-painting to blend colors and textures	279
Using the Sharpen tool to add detail	280
Blurring some or all of your image.....	280
Finding Relief with the Healing Tools	282
Cloning content to cover damage and unwanted content.....	282
Removing red-eye.....	284
Chapter 17: Correcting Faded, Funny, and Funky Colors	287
Adjusting Color Balance.....	287
Adjusting color levels	287
Using the Color Variations dialog box	288
Equalizing colors	288
Fixing a color cast	290
Working with Color Intensity and Quality.....	291
Increasing and decreasing color intensity	291
Tinkering with brightness and contrast.....	292
Chapter 18: Restoring and Enhancing Photos with Filters and Special Effects ...	293
Working with Filters.....	293
Understanding how filters work.....	293
Fixing flaws with corrective filters.....	294
Turning photos into paintings with artistic filters.....	297
Going a little crazy with special-effects filters.....	298
Getting Your Hands on Third-Party Filters	300
Using the Effects Tab Palette.....	301
Part IV: Organizing, Printing, and Sharing Your Pictures	303
Chapter 19: Storing and Organizing Your Digital Photos	303
Organizing Your Photos.....	303
Using your computer's file-management tools	304
Using photo album software.....	306
Using online galleries.....	308
Archiving and Backing Up Photos	309
Backing up your best shots	310
Using CD-R and CD-R/W.....	310
Looking ahead to DVD storage.....	311
Off-site storage for maximum safety.....	311
Chapter 20: Printing Your Final Result	313
Why Do You Need Prints?	313
Evaluating Your Printing Options	314
Ink-jet printers	315
Laser printers	315
Dye-sublimation printers.....	315
Touring the Print Process	316
Preventing surprises with Print Preview.....	316
Understanding your output options	317
Printing your photos.....	318
Using Professional Printing Services.....	318
Choosing a service bureau.....	319
Tell them what you want — what you really, really want	320
Knowing when you need a service bureau	320

Chapter 21: Sharing Pictures on the Web 321

- Appreciating the Advantages of Web Sharing 321
 - Sharing your personal photos 322
 - Sharing images with business associates 323
- Choosing a Web-Based Photo Sharing System 324
 - Using commercial sharing sites and services 325
 - Using America Online's You've Got Pictures and Picture Center..... 325
 - Using your own Web space 327

Book II: Digital Movies..... 331

Part I: Getting Ready for Video..... 333

Chapter 1: Introducing Digital Video 333

- What Is Digital Video?..... 333
 - Comparing analog and digital video 334
 - Why DV is a big deal 335
 - Warming up to FireWire..... 336
- What Can You Do with Editing Software?..... 338
- Editing Video 339
- Defining Key Image Terms 340

Chapter 2: Choosing a Camcorder 341

- Finding Information about Digital Camcorders..... 341
- Mastering Video Fundamentals..... 342
 - The mechanics of video recording..... 342
 - Broadcast formats 343
 - Interlacing versus progressive scan 344
 - The many aspects of aspect ratios 345
 - Color..... 346
- Picking a Camera Format 347
 - MiniDV 347
 - Digital8 348
 - Other digital formats..... 348
 - Analog formats..... 349
- Choosing a Camera with the Right Features 350

Chapter 3: Preparing Your Computer for Video 353

- Resolving the Mac-versus-PC Debate Once and for All..... 353
- Upgrading Your Computer 354
- Using a Macintosh..... 356
 - Buying a new Mac..... 356
 - Upgrading ye olde Mac 357
 - Choosing Mac video software..... 359
- Using a Windows PC 360
 - Buying a new PC 360
 - Upgrading your PC for digital video 362
 - Choosing Windows video software..... 365
 - Optimizing Windows for video work 365
- Choosing Analog Capture Hardware 368
 - Selecting capture cards 368
 - Selecting external video converters 369



Improving the Human–Machine Interface.....	370
Working with video monitors	370
Using a multimedia controller	371
Chapter 4: Getting the Right Accessories	373
Accessorizing Your Camcorder	373
Managing Your Camcorder’s Battery.....	374
Sounding Out Audio Equipment.....	376
Choosing a microphone.....	376
Selecting an audio recorder	379
Shedding Some Light on the Scene.....	380
Stabilizing Your Video Image	381
Video-Shoot Checklist For Dummies	381
Basic checklist	381
Advanced checklist.....	382
Part II: Action! Shooting Fun Footage	383
Chapter 5: Shooting Great Digital Video	383
Planning a Video Production	383
Composing a Shot	384
Being off-center.....	384
Avoiding amputations.....	385
Watching your background	385
Considering your angles.....	386
Evaluating Lighting	387
Setting white balance.....	387
Choosing lights	388
Bouncing light.....	389
Hitting with hard light.....	390
Suggesting with soft light	391
Controlling shadows	392
Key light (making Aunt Harriet a glamorous star).....	393
Fill light (making Aunt Bertha a young starlet)	394
Backlight (giving Aunt Bertha much-needed depth)	395
Using lens filters	396
Controlling Focus and Exposure	396
Setting Up Your Camcorder	397
Shooting Video	398
Panning effectively	398
Knowing when to tilt.....	399
Avoiding timecode breaks.....	399
Mastering your tripod.....	400
Start recording early	401
Stop recording late.....	402
The Fine Art of Zooming	402
Zoom technique and the three shots.....	402
Performing the zoom	403
Recording Sound	405
Managing ambient noise.....	406
Creating your own sound effects	407
Chapter 6: Importing Video Clips	409
Preparing for Digital Video Capture.....	409
Turning off unnecessary programs.....	410
Defragmenting your hard drive	410

Making room for video files	411
Connecting a digital camcorder to your computer	413
Capturing Digital Video	414
Capturing video in Pinnacle Studio.....	414
Capturing video in Apple iMovie.....	420
Troubleshooting Capture Problems	421
You can't control your camera through your capture software	421
Frames drop out during capture	422
Capture stops unexpectedly	423
Capturing Analog Video? Yuck!	423
Preparing for analog video capture	423
Setting up capture hardware	424
Capturing those analog clips	426
Chapter 7: Importing Audio	429
Understanding Audio.....	429
Understanding sampling rates.....	429
Delving into bit depth	430
Recording Audio.....	430
Recording audio with your Macintosh	430
Recording voice-over tracks in Pinnacle Studio.....	432
Working with CD Audio	434
Importing CD audio in iMovie.....	434
Importing CD audio in Studio	435
Working with MP3 Audio.....	436
Ripping MP3 files on a Mac	437
Ripping MP3 files in Windows.....	438
Part III: The Cutting Room Floor: Editing Your Video	441
Chapter 8: Choosing Your Video-Editing Software	441
Making the Smart Choice	441
It Began with iMovie	442
Studio Fits Like a Glove	444
Prosumers Prefer Premiere Pro.....	446
All Hail Final Cut Pro HD	446
Chapter 9: Basic Video Editing	449
Starting a New Project	449
Working with Clips	451
Organizing clips	451
Previewing clips.....	453
Trimming out the unwanted parts	454
Turning Your Clips into a Movie.....	456
Visualizing your project with storyboards	456
Using the timeline.....	458
Fine-Tuning Your Movie on the Timeline	462
Trimming clips on the timeline.....	462
Removing clips from the timeline	464
Undoing what you've done	465
Adjusting playback speed	465
Fixing Color and Light Issues.....	468
Adjusting image qualities in Pinnacle Studio.....	468
Modifying light and color in Apple iMovie.....	469

Chapter 10: Adding Transitions and Titles	471
Using Fades and Transitions between Clips	471
Choosing the best transition	472
Adding a transition to the timeline	474
Adjusting transitions	476
Giving Credit with Titles.....	477
Creating titles for your movies.....	478
Making effective titles.....	479
Using Studio's Title Editor	481
Editing titles.....	481
Changing backgrounds	485
Creating Titles in iMovie	486
Chapter 11: Using Special Effects in iMovie and Adobe Premiere Pro	489
Compositing Video.....	489
Adjusting the opacity of a clip.....	490
Using keys	491
Creating a matte	494
Animating Clips	495
Adjusting Motion controls	496
Animating a clip.....	497
Using Effects in Premiere Pro	498
Built-in effects	498
Applying effects.....	500
Using key frames	501
Removing effects	502
Using Other Video Effects	503
Distorting video	503
Disorienting your audience (on purpose).....	504
Working in the Golden Age of Cinema	505
Flipping video	506
Adding Web links to movies.....	507
Using Effects in iMovie	508
Built-in effects	508
The Effects panel	509
Filtering and Fixing the Picture	510
Adjusting colors	511
Adjusting brightness and contrast.....	512
Creating special looks.....	513
Using active effects	514
Chapter 12: Adding Audio to the Mix	519
Using Audio in a Project.....	519
Understanding audio tracks.....	520
Adding audio to the timeline	521
Adjusting volume.....	522
Working with sound effects.....	525
Adding a Soundtrack to Your Project	527
Adding music from a CD.....	527
Generating background music with SmartSound.....	527
Part IV: Outputting Your Movies	529
Chapter 13: Exporting Digital Video to Tape	529
Prepping Your Movie for TV Playback	529
Setting Up Your Hardware.....	530

Exporting the Movie	531
Exporting to tape in Apple iMovie	533
Exporting to tape in Pinnacle Studio	534
Chapter 14: Putting Your Movies on the Internet	539
Choosing a Video Format	539
Streaming your video	540
Comparing player programs	541
Exporting Movies for the Online World	544
Making QuickTime movies with iMovie	544
Exporting Internet movies from Studio	549
Putting Your Movie on the Web	552
Finding an online home for your movies	552
Creating a (very) simple Web page	553
Part V: Filmography Tips	555
Chapter 15: Video Preproduction: Planning, Storyboarding, and Scripting	555
Preparing to Shoot Digital Video	555
Using the right angle for the right situation	555
Selecting the length of shot	556
Using focus as a technique	558
Setting camera height	559
Moving the camera	559
Composing the picture	562
Framing the shot	563
Preproducing Your Digital Video	565
Storyboarding	565
Scripting	566
Planning the shoot	568
Chapter 16: Digital Video Production Tips	569
Planning for Success and Preparing for Survival On Location	569
Types of on-location shoots	572
Using Time to Your Advantage	575
Working with People On and Off Camera	579
Roles that people play	579
Choosing effective clothing	582
Book III: Digital Music	583
Part I: Transforming Your Computer into a Music Machine	585
Chapter 1: Digital Music Hath Charms	585
The Art of Being a Music Fan	586
The Seven Wonders of the Online Music World	586
Audio	587
Video	589
Merchandise	589
Radio	589
Concerts	590
News and information	590
Community	591

The Background of Music Online.....	591
BBS blues.....	591
Tommy, can you FTP me?.....	591
E-zines.....	592
Netcasts.....	592
Joining the Pack of MP3 Users.....	592
Music lovers.....	593
Musicians.....	594
Those darn companies.....	595
Disc jockeys.....	595
Print media.....	596
Comedy lovers.....	596
Students.....	596
Understanding the Legalities (And Illegalities) of MP3.....	596
Finding the Best MP3 Files.....	597
Playing and Creating MP3 Songs.....	597
Creating MP3 files from your own CDs.....	598
Copying MP3 files onto CDs.....	598

Chapter 2: Using Your Computer as a Music Platform 599

Listening to CDs on Your Computer.....	599
What you need.....	599
Play it, Sam.....	600
Creating a Dream Music Machine.....	600
Choosing a computer.....	601
What about upgrading my PC's processor?.....	602
Picking a sound card.....	604
Installing a card.....	604
Selecting speakers.....	607
Adding memory.....	608
Exploring bandwidth.....	608
Storing stuff.....	609
Installing a larger hard drive.....	610
Installing or replacing an EIDE hard drive.....	611
Hooking Up the Stereo.....	614
Adding Groovy Extras.....	615
Scanners.....	615
Cameras.....	616
CD and DVD burners.....	616
Installing a new CD or DVD burner.....	617
Headphones.....	618
Enjoying digital music on portable MP3 players.....	618
Getting Away with the Minimum.....	618

Chapter 3: Playing MP3 Files on Your Computer and Home Stereo 619

Using the Winamp MP3 Player.....	619
Installing and running Winamp.....	620
Customizing Winamp with add-ons.....	626
Other MP3 Players and Encoders.....	629
The Other MP3 Players.....	629
Windows Media Player.....	629
Sonique.....	630
Changing Your Default MP3 Player.....	631



Assigning an MP3 Player to Your MP3 Files (The Hard Way).....	631
Playing Songs on Your iPod with Your Mac.....	632
Connecting Your Computer to Your Home Stereo.....	634
Chapter 4: Internet Radio on Your Computer	637
What's an Internet Radio Station?.....	637
What's a SHOUTcast Radio Station?	639
What Equipment Do I Need for SHOUTcast?	640
Listening to SHOUTcast.....	640
Setting Up Your Own SHOUTcast Radio Station.....	643
Chapter 5: Attending Internet Concerts	649
Getting Ready	649
The necessary hardware and software	649
A quick word about speed	650
Finding Concerts Online.....	651
Specialty sites	651
Wired sites.....	652
Guides for online concerts.....	653
Fan pages.....	653
Going Backstage: Chatting with Bands Online	653
Finding Shows That You Missed	654
Getting Concert Information.....	654
Part II: Getting Music on Your Hard Drive	655
Chapter 6: Ripping CDs into MP3s	655
Why Use Ripping Software?	655
How Do I Rip Songs from a CD?	656
Recording from Sources besides CDs.....	656
Connecting sound cables to your computer	657
Recording songs from albums	660
Recording from tapes, camcorders, a microphone, or TVs.....	662
Editing Recorded Music or Sounds.....	663
Making mono recordings play on both speakers	663
Cutting out the bad parts	664
Introducing Musicmatch Jukebox.....	665
Putting Musicmatch to Work.....	666
Making MP3 files from a CD	666
Playing MP3 files.....	669
Adding tag information and CD art	672
Creating MP3s from Albums or Other Sources	673
Creating CDs from MP3s.....	674
Listening to Internet Radio through Musicmatch.....	676
Listening to Musicmatch Radio	676
Creating a personalized station.....	677
Chapter 7: Choosing an Online Music Vendor	679
So How Do You Rate a Vendor?	679
Apple's iTunes Music Store.....	681
Walmart.com.....	683
Napster	683
eMusic.com.....	685

Chapter 8: Buying Music with iTunes	687
Setting Up an iTunes Music Store Account.....	687
Previewing a Song.....	689
Buying and Playing Songs.....	690
Handling Authorization.....	690
Setting the Music Store Preferences.....	691
Part III: Organizing Your Music	693
Chapter 9: Downloading and Editing Song Information	693
Filling in the Blanks in iTunes.....	693
Retrieving information automatically.....	693
Retrieving information manually.....	694
Typing the song information.....	694
Editing artist and band names.....	694
Speed editing multiple songs.....	694
Adding liner notes and ratings.....	697
Adding MP3 Tag Data in Winamp.....	699
Chapter 10: Organizing Your iTunes Music Library	701
Browsing by Artist and Album.....	701
Understanding the Song Indicators.....	703
Changing Viewing Options.....	703
Sorting Songs by Viewing Options.....	704
Searching for Songs.....	705
Organizing Your Music with Playlists.....	706
Creating playlists of songs.....	706
Creating playlists of albums.....	707
Viewing a Smart Playlist.....	708
Creating a smart playlist.....	708
Editing a smart playlist.....	709
Selecting a Playlist on Your iPod.....	709
Part IV: Using a Portable Music Player	711
Chapter 11: Choosing a Portable Music Player	711
Deciding on a Storage System.....	711
CompactFlash.....	712
IBM Microdrive.....	713
SmartMedia.....	714
MultiMediaCard.....	714
CDs.....	714
Hard drives.....	716
Sony Memory Sticks.....	716
So, which storage format is best?.....	716
Introducing the iPod.....	717
Choosing a Portable Player.....	718
Skip protection.....	719
Radio tuner.....	719
Microphone.....	719
Directory and subdirectory restrictions.....	719
ID tags.....	720
Playback options.....	721
Power.....	721
Accessories.....	721

Playing MP3s through Your Home Stereo	721
Listening to MP3 Files in Your Car	721
Chapter 12: Syncing an iPod to Your Mac	723
Changing Your Update Preferences	723
Updating Your iPod Automatically	724
Updating the entire library	725
Updating playlists.....	726
Updating selected songs	727
Updating Your iPod Manually.....	728
Copying music directly.....	728
Deleting music from your iPod	729
 Book IV: CD & DVD Recording	 731
 Part I: Shake Hands with Your Recorder	 733
 Chapter 1: Optical Storage (Or It's All in the Pits)	 733
Always Begin with a Definition.....	734
How Is Data Recorded on CDs and DVDs?	736
It's All in the Dye	737
Behind the Curtain: Inside CD-RW and DVD Drives.....	739
The motor.....	739
The laser stuff	739
The tray	739
The controls.....	740
The emergency hole.....	740
Love Those Discs: CD-R, CD-R/W, DVD-R/W, DVD+R/W, and DVD-RAM.....	740
"Hey, can't I buy just one drive?"	740
First on the block: CD-R.....	741
Reusable and loving it: CD-RW	741
Ready for stardom: DVD-R/W.....	742
Oh joy, what confusion: DVD+R/W.....	742
The rewritable warehouse: DVD-RAM	743
What's Wrong with Tape, Disks, and Removable Media?.....	743
More reliable	743
Higher capacity.....	743
Cheaper	744
Faster and more convenient	744
Compatibility	744
What Do I Need in Order to Record?	744
What you need for Windows	744
What you need for the Macintosh.....	745
What Kind of Discs Can I Record?.....	745
Briefcase backup	746
Computer files and data of all sorts.....	746
Digital audio	746
Digital video	746
Network storage	746
Photo discs.....	747
Caring for Your Optical Pets	747
You gotta grip 'em by the rim!	747
The deadly enemies	748
The Disc Hotel	748
Sometimes you've just gotta wipe	749

Chapter 2: Buying Your Recording Beast	751
Internal or External: Thinking Outside the Box	752
Stay inside with internal	752
Breathe the open air with external	752
“Edna, He Says We Need an Interface”	753
EIDE	753
SCSI	754
USB	754
FireWire	756
The X Factor Explained	756
Features on Parade	757
Make use of every pit: Overburning	758
Three words: Buffer, buffer, buffer	758
The ultimate safety net: Burnproof recording	759
Disc-at-Once: Funny name, important feature	760
Sorry, but It’s Time to Talk CD and DVD Formats	760
UDF/packet writing	760
Video CD	761
CD Extra	761
Multisession/CD-ROM XA	762
Software You Just Gotta Have	762
A sharp-dressed disc	764
Slick recording add-ons	764
Tools to organize and play your stuff	765
Scavenging Fossilized CD and DVD Drives	767
Buying Your Drive at the Maze o’ Wires Mall	768
Buying Your Drive on That Web Thing	768
Chapter 3: DVD Is the Cat’s Meow	771
“Do I Need DVD-R/W, DVD+R/W, or DVD-RAM?”	772
“Hey — I Can’t Copy ‘Curse of the Mollusk People!’”	773
Weird, Wild DVD Format Stuff	774
DVD-V	774
DVD-A	774
Additional Toys You May Need	774
MPEG card: Aye, Matey, ’tis indeed a tiny file	775
FireWire port: The real information superhighway	775
Digital camcorder: Your digital muse	776
A-D converter: A bridge to the past	776
Video-editing software	778
Chapter 4: Poof! You’re a Computer Technician	781
Preparation Is the Key	781
Read the instructions	782
Collect what you need	782
Ask for help	782
Choose a spot to be external	783
Installing an EIDE Drive	783
What you need	783
The EIDE dance, step by step	784
Plugging and Playing with a USB Drive	786
Running the SCSI Gauntlet	787
IDs ‘R’ Us	787
Coming to grips with termination	788

What you need.....	790
Your step-by-step guide to internal SCSI happiness	790
External SCSI stuff	791
Installing a FireWire Drive.....	792
“Um, It’s Just Sitting There”	792
EIDE troubleshooting.....	793
SCSI troubleshooting.....	793
USB and FireWire troubleshooting.....	794

Part II : Measure Twice, Cut Once: Preparing for Recording797

Chapter 5: Choosing Recording Software797

The Windows Tool of Choice: Roxio’s Easy Media Creator 7.....	797
Formats and disc types out the wazoo.....	798
Wolfgang woulda loved this	799
Extra stuff they give you (without even asking).....	799
Burning Up Your Macintosh with Roxio Toast 6 Titanium	802
Packet Writing Made Easy with Drag-to-Disc.....	803
Introducing the Editors: iMovie, iDVD, and Premiere Pro	804

Chapter 6: Preparing Your Computer for CD and DVD Recording807

Creating Elbowroom	808
‘Course, you could just buy a bigger hard drive.....	808
Locate unnecessary stuff	809
Let the wizard do it!	810
Call in the professionals	810
Checking under the Rug.....	811
Fixing your drive the Windows way.....	812
Fixing things with Mac OS 9.2.....	813
Fixing things in Mac OS X.....	814
Avoiding Fragments	815
Avoiding the Unexpected.....	817
Scheduled events and scripts.....	817
Network access.....	817
Power-saving mode and screen savers	818
Terrific Tips and Tweaks.....	820
Avoid disk-intensive, memory-hungry behemoths	820
Give your recording software some elbowroom	820
Speed up your hard drive.....	821
Beware the flagged-out laptop.....	822

Chapter 7: Making Choices Before Your Recording Session823

Picking a Jazzy Format	823
Data, lovely data.....	823
Sweet audio for the ears.....	824
Straddle the line with mixed mode	825
Throw caution utterly to the wind with packet writing	826
“Disc-at-Once? Track-at-Once? Why Not All-at-Once?”	827
Meet you at the track.....	827
Do it all at once.....	828
Multipurpose multisession	829
Long Filenames Are Your Friends	830
The Right Way to Organize Files	831
“Thumbnails? You’re Kidding, Right?”	832
Converting Files for Fun and Profit.....	833

Part III: Starting the Recording Process	837
Chapter 8: Taking Easy Media Creator for a Spin	837
Recording Data: Putting Files on a Disc	837
Recording Your Music	842
Copying a Disc	845
Using a Disc Image	847
Erasing a Rewritable Disc	848
Project: Developing MP3 Fever	849
Chapter 9: Toasting Mac Discs	851
Putting Files on a Disc	851
Recording an Audio CD	854
Ooh! It's a Hybrid!.....	855
Let Your Video Do the Talking.....	858
Project: Recording a Backup DVD-ROM Disc.....	860
Chapter 10: Burning Data with Drag-to-Disc	863
“Whaddya Mean, I Have to Format?”	863
Just Add Files and Stir	866
“Wait — I Didn't Mean to Trash That!”	867
Eject, Buckaroo, Eject!.....	867
Adding Files to an Existing Disc	868
Erasing a Drag-to-Disc Disc	869
“Whoops, I Can't Read This Disc”	869
Project: Creating a New Employee Disc	870
Part IV: Meeting Your Data Storage Needs	873
Chapter 11: Heavy-Duty Recording	873
It's Data, It's Audio, It's Mixed!	873
Putting data before your audio.....	873
The extra behind CD Extra.....	874
Recording That MTV Video	875
Project: Recording a Mixed-Mode Disc	875
Project: Recording a CD Extra Disc.....	878
Project: Recording a DVD Movie Disc	881
Chapter 12: Burning Large Files to DVD	885
What's Involved in Recording a DVD-R or DVD+R?.....	885
The Heavy Stuff: Introducing DVD Authoring.....	886
Welcome to the world of iDVD.....	887
Letting loose with DVD Studio Pro.....	887
Letting UDF Do the Work.....	888
Project: Recording a DVD-R with iDVD.....	888
Index	895