

Table of Contents

Preface.....	6
Chapter 1 Your Mic Is Your Instrument.....	8
Dynamic Vs. Condenser Mics.....	8
Large-Diaphragm vs. Small-Diaphragm Condenser Mics.....	8
The Proximity Effect.....	9
The Importance of Room Acoustics.....	10
Connecting Mics.....	10
Mic Preamps and Setting Levels.....	11
Using Meters to Set Levels.....	12
Remote Control.....	13
Accessories.....	14
Pop Filters.....	14
Mic Stand.....	15
Shock Mount.....	15
Protective Box or Pouch.....	16
Headphones.....	17
Key Takeaways.....	17
Chapter 2 Recording Techniques.....	19
To Hold or Not?.....	19
Mic Technique.....	19
Monitoring Your Vocals.....	19
Recording a Vocal.....	21
Overdubbing Vocals.....	22
Punching and Auto-Punching Vocals.....	22
Composite Vocals.....	23
Record the Takes.....	24
Audition the Takes, and Choose the Best Sections.....	24
Check the Flow.....	25
Bounce the Takes Together.....	25
Additional Comping Options.....	26
The Next Step.....	26
Add a Dim Solo Function for Comping.....	27
Key Takeaways.....	28
Chapter 3 Preparing Your Vocals for the Mix.....	30
Step 1: Delete Silences.....	30
Step 2: Reduce Breath Noises and Inhales.....	30
Step 3: Reduce Plosive Severity.....	31
Step 4: Phrase-by-Phrase Normalization/Gain Changes.....	32
Step 5: De-Essing.....	35

Step 6: Pitch Correction.....	36
Retaining a Natural Sound with Pitch Correction.....	38
How Pitch Correction Can Create Vocals with <i>More Soul</i>	39
And While We're on the Subject of Melodyne.....	39
Step 7: Tweak the Vibrato.....	39
Artificial Vibrato.....	40
Time to Start Mixing.....	41
Key Takeaways.....	41

Chapter 4 | Equalization.....43

Equalizer Responses.....	43
Main EQ Parameters.....	46
EQ Slopes.....	47
What You'll Be Equalizing with Voice.....	47
The Lows.....	48
The Highs.....	48
The Upper Midrange.....	48
The Lower Midrange/Upper Bass.....	49
Typical EQ Curves for Vocals.....	49
Male Vocal EQ.....	50
Airy, Choir-Type Vocals.....	51
Male Ballad Vocal.....	52
Dynamic Mic Enhancer.....	53
Podcasting.....	54
Virtual Pop Filter.....	55
Key Takeaways.....	56

Chapter 5 | Dynamics Processing.....58

How Dynamics Processors Work.....	58
Limiter.....	58
Limiter Parameters and Controls.....	59
How to Adjust the Limiter's Parameters.....	60
Compressor.....	61
Compressor Parameters and Controls.....	61
How to Adjust the Compressor's Parameters.....	64
Compressor Parameter Adjustment Tips.....	64
Compressor Presets: Friend or Foe?.....	65
Expander.....	65
Expander Parameters and Controls.....	66
How to Adjust the Expander's Parameters.....	67
Gate.....	67
Gate Parameters and Controls.....	68
How to Adjust the Gate's Parameters.....	69
About Sidechaining.....	70
Create a One-Knob, FX Chain Compressor.....	71
Key Takeaways.....	74

Chapter 6 Reverb and Delay.....	76
Reverb Components.....	76
What These Components Mean to Vocals.....	77
Reverb Technologies.....	77
PreSonus Reverb Personalities.....	78
One Reverb vs. Many.....	79
Supplementing with a Real Acoustic Space.....	80
Pre-Reverb EQ.....	80
General Reverb Parameters and Controls.....	81
Mix (Dry/Wet).....	81
Pre (Delay).....	81
Length.....	82
Damp(ness).....	82
Reverb Parameters for Specific Plug-Ins.....	82
Mixverb Parameters.....	82
Room Reverb Parameters.....	83
OpenAIR Parameters.....	84
Hybrid Reverb.....	85
Delay.....	86
Use Stereo Channel Mode for Stereo Effects with Mono Vocals.....	87
Analog Delay and Beat Delay Common Parameters.....	87
Analog Delay Parameters.....	87
Beat Delay.....	88
Groove Delay.....	89
Using Delay to Create Long, Trailing Echoes.....	90
Key Takeaways.....	91
Chapter 7 Automating Parameter Changes.....	93
Automation Basics.....	93
Automation Methods.....	95
Method 1: Record On-Screen Control Motion.....	95
Method 2: Draw and Edit Envelopes.....	96
Method 3: Record Automation Moves from a Control Surface.....	97
Method 4: Snapshot Automation.....	98
Automating Effect and Other Parameters.....	99
The Trim Function.....	99
Key Takeaways.....	100
Chapter 8 Doubling, Harmonizing, and Layering Vocals.....	102
Doubling (ADT) with the Chorus Plug-In.....	102
Chorus Parameters and Controls.....	102
Pseudo-ADT with Pitch Correction.....	103
Time- and Pitch-Shifting to Create Pseudo-Double Tracking.....	104
The Doubled Vocal Fix.....	105
Tips for Mixing Double-Tracked Vocals.....	105
Creating Harmonies with Melodyne.....	106

Techniques for Layered Vocals.....	107
Dealing with Inhales.....	107
Fixing Notes that Don't End at the Same Time.....	107
Busing for Simpler Mixing.....	108
Key Takeaways.....	109

Chapter 9 | Vocal Performance Tips.....111

Emotional Dynamic Range.....	111
The Lyric Sheet.....	111
Ways to Add Emphasis.....	112
Avoiding the Vocal Disconnect.....	113
Fusion: It's the Package.....	114
Surprise—You're a Salesperson.....	114
Intimacy.....	114
Wait Until Playback Before You Judge Yourself.....	115
The Performance Curve.....	115
The Double Peak.....	116
The Quick Starter.....	116
The Long Ramp-Up.....	116
The Anything Goes.....	117
The Rock Steady.....	117
The Volume Jump Trick.....	118
Break Time.....	119
That's a Take.....	119

About the Author.....121