

TOPIC INDEX

Accessories

Flamenco Capo	D. Alfieri	25
---------------------	------------------	----

Balalaika

Meet M.A. Kupfer	Jim Flynn	178
A Short History of the Balalaika	Alexandre Belevich.....	180
An Interview with Yuri Aleksik	Jim Flynn	183
S.I. Nalimov, the Master Balalaika Builder	A.I. Peresada	184
Building the Prima Balalaika	Jim Flynn	190
It Worked for Me	Francis Kosheleff	479

Banjo

Meet Bob Rock	Clarke Prouty	142
Calfskin Banjo Head	Kirk Hogan	244
The Mandolin Orchestra in America	Joseph R. Johnson	262
Meet Frank "Andy" Johnson	Jonathon Peterson	294
Banjo Block Rim	Elliott Burch	444

Bass, flattop

In Defense of Short Scale Basses	Michael Sacek	153
--	---------------------	-----

Bass, viol

Design Factors in the String Bass	Frederick C. Lyman, Jr.	52
Meet Hammond Ashley	Tim Olsen	82
In Defense of Short Scale Basses	Michael Sacek	153
Bass String Update	Frederick C. Lyman, Jr.	197
Meet Frederick C. Lyman, Jr.	Jonathon Peterson	248
Meet Patrick Marshall	Jonathon Peterson	338
Adjustable Bass Bridge	Peter Psarianos	356
A Low Cost Bass	Frederick C. Lyman, Jr.	430
Basic Bass Adjustments	Frederick C. Lyman, Jr.	450

Bending

Flattening Rosewood Potato Chips	Ervin Somogyi	66
Bending Mandolin Sides	Dick DeNeve	108
Working with Koa	Bob Gleason	460
It Worked for Me	James Toomey	478
Questions	Cyndy Burton	480

Binding

Six Lutherie Tools	Jeffrey R. Elliott and Jonathon Peterson	330
Purfling Lamination	Duane Waterman	367

Bow

Meet Michael Yeats	Cyndy Burton	354
An Inexpensive Bow Winding Lathe	Gary Fish.....	412

Bracing, flattop	
Adjustable Compensated Guitar Bridge	John Morgan.....
The Cranked Top	Brett Borton 208
Bracing, guitar	
Voicing the Steel String Guitar	Dana Bourgeois
Dana Talks Wood	Gila Eban 476
Bracing, other	
Maximum Mirrors	Dale Randall..... 318
Bridge, electric	
Questions	Cyndy Burton
	480
Bridge, guitar	
Adjustable Compensated Guitar Bridge	John Morgan..... 198
Letter to the Editor	Arnold M.J. Hennig
Making Bridges Using Power Tools	Kent Rayman
	289
Bridge, other	
Floating Saddle for Dulcimer	Jeff Feltman
Adjustable Bass Bridge	Peter Psarianos
Spruce Bridge Plate	Rion Dudley
It Worked for Me	Francis Kosheleff
	479
Bridge, violin	
Violin Bridge Tuning	Al Carruth..... 349
Violin Q&A	Michael Darnton
	486
Business, ethics	
Violin Horror Stories	Al Stancel
Meet Michael Yeats	Cyndy Burton
	354
Business, other	
The White-Collar Luthier	Tim Shaw
Patents	Scott McKee
An Interview with Stewart Pollens	Cyndy Burton
Meet Hartley Peavey	George Manno
	402
Cello	
Meet Hammond Ashley	Tim Olsen
Collapsible Cello Mold	Jack Levine
Special Caliper for Cello	Jack Levine
	246
Computers	
Meet Hartley Peavey	George Manno
	402
Dulcimer, fretted	
Acoustic Variables in Fretted Dulcimer Construction	Bonnie Carol..... 96
Dulcimer String Pins	Bud Ingraham
Updating the Mountain Dulcimer	Hardy B. Menagh
Floating Saddle for Dulcimer	Jeff Feltman
Laminated Dulcimer Fretboard	C.F. Casey
	361

Dulcimer, hammered

Hammered Dulcimer String Pins and Loops	Edward Damm	236
Hammered Dulcimer	Al Carruth	242
Hammered Dulcimer Tuning Tricks	Edward Damm	335
Hammered Dulcimer Partials	Nicholas Von Robison	418

Electronics

Charlie Christian Pickup	Doc Kauffman	19
Diagnosing with an Ohmmeter	Bob Petrus	31
Two Tools for Inside Jobs	Harry Fleishman	60
An Overview of Pickup Design	Tim Shaw	62
Sound Generator for Experimentation	Matt Fichtenbaum	203
Finding Pickup Phase with a VOM	Ralph Novak	413
It Worked for Me	John Kitakis	478
Questions	Cyndy Burton	480

Fingerboard (Fretboard)

Fret Crown Radius: A Cause of Pitch Error?	Steve Newberry	106
Laminated Dulcimer Fretboard	C.F. Casey	361
The Multi-Scale Fretboard	Ralph Novak	364
Elizabethan Connection	John Bromka	365
Guitar String Action	Don Teeter	389
Lute Action	Lawrence D. Brown	394
A Low Cost Bass	Frederick C. Lyman, Jr.	430
Violin Q&A	Michael Darnton	486

Finish, lacquer

One Man's Mandolins	Steve Andersen	112
White Lacquer, No Specks	Dana Bourgeois	199
Try Cherry!	John Calkin	469
Questions	Cyndy Burton	480

Finish, oil

A Low Cost Bass	Frederick C. Lyman, Jr.	430
-----------------------	------------------------------	-----

Finish, other

Wood Treatment and Sizing Materials	Rick Rubin	362
Waterglass vs. Calcium Silicate	John Chipura	393
It Worked for Me	Chris Burt	479
Questions	Cyndy Burton	480

Finish, shellac

An Introduction to French Polishing	Burton, Byers, Steinegger, and Vineyard	38
The Great Tree vs. Bug Controversy	Tim Olsen	45
Letter to the Editor	John Randerson	161
Notes on Preparing Lake Pigments	Geary Baese	206
Violin Varnish	Michael Darnton	376

Finish, spraying

White Lacquer, No Specks	Dana Bourgeois	199
Try Cherry!	John Calkin	469
Questions	Cyndy Burton	480

Finish, varnish

Making Organic Colorants Light Safe	George Manno	32
“Formula 411” Varnish	George Manno	67
Letter to the Editor	John Randerson	161
An Introduction to the Stradivarian Mystique	Tim Olsen	162
Notes on Preparing Lake Pigments	Geary Baese	206
Classic Italian Violin Varnish	Geary Baese	214
Violin Varnish Retouching.....	Michael Darnton	306
Violin Varnish	Michael Darnton	376
Questions	Cyndy Burton	480
Violin Q&A	Michael Darnton	486
Reviews: <i>Classic Italian Violin Varnish</i> by Baese	Robert Lundberg	497

Finish, water-base

Questions	Cyndy Burton	480
-----------------	--------------------	-----

Fretboard (see Fingerboard)

Gluing

Opening and Cleaning Cracks	Al Stancel	34
How Superglue Works	Yves Parent	36
Lute Making	Lawrence D. Brown	68
Making Waterproof Hide Glue	Lloyd Scott Ogelsby	77
Purfling Lamination	Duane Waterman	367
Guitar String Action.....	Don Teeter	389
Working with Koa	Bob Gleason	460
Questions	Cyndy Burton	480

Guitar, archtop

Archtop Guitars: Is Bigger Better?	Steve Grimes	58
Steve Andersen’s Precision Pantograph	Jonathon Peterson	115
1948 D’Angelico New Yorker	Steve Andersen	139
Talk About Archtops	Jonathon Peterson	422
Questions	Cyndy Burton	480

Guitar, Baroque

The Witten-Rawlins Collection	Joseph R. Johnson	100
A Baroque Guitar Restoration.....	R.E. Bruné	250
Who Made Marie Antoinette’s Guitar?	Robert Lundberg	352
Who Made Marie Antoinette’s Guitar?	R.E. Bruné	352
Elizabethan Connection	John Bromka	365

Guitar, classical

A Remembrance of Segovia	R.E. Bruné	2
The Maestro’s Hauser	H.E. Huttig	4
A Meeting with Andrés	Richard Schneider	5
Harmonic Analysis of String Excitation Methods	J. and O. Jovičić	20
Epitaph for a Luthier: Miguel Company	H.E. Huttig	23
Flamenco Capo	D. Alfieri	25
Meet Manuel Davila	H.E. Huttig	61
Letter to the Editor	Beverly Maher	80
Letter to the Editor	Jeffrey R. Elliott	80
The “Belly Art” of Japanese Lutherie	R.E. Bruné	86
Traditional Rosette Making	H.E. Huttig	104
An Interview with H.E. Huttig	David B. Fisher	109
Remembering Hermann Hauser II	H.E. Huttig	154

Guitar Sound Criteria	Thomas Knatt	200
Soundboard Bracing Considerations	Paul Wyszkowski.....	201
Toward a Classic Guitar Family	Graham Caldersmith	222
A Baroque Guitar Restoration	R.E. Bruné	250
Head V-Joint	Duane Waterman	282
Making Bridges Using Power Tools	Kent Rayman	289
Meet Bill McCaw	Jonathon Peterson	319
Evolving the Classic Guitar Soundboard	Ted Davis	340
José Romanillos: On the Path of Utter Dedication	Gila Eban and Duane Waterman	346
Reflections on Segovia's Guitars.....	Jeffrey R. Elliott and Cyndy Burton	358
Andalusia and the Modern Guitar	R.E. Bruné	372
Meet George Smith	Jonathon Peterson	398
Meet José Yacopi	Roberto Blinder	414
Lutherie in Romania	Gabriel Petric	420
Structural Considerations	Paul Wyszkowski.....	452
Bob Mattingly's Building Process	Duane Waterman and William Tapia	456
Questions	Cyndy Burton	480
Reviews: <i>Guitarmaking: Tradition and Tech.</i> by Cumpiano and Natelson	Cyndy Burton	490
Reviews: <i>Antonio de Torres, Guitar Maker</i> by Romanillos	Burton and Elliott, Huttig, and Schneider	496
 Guitar, electric		
The Great White (and Hot Pink) North	Tim Olsen	12
An Interview with Les Paul	George Manno	280
The Multi-Scale Fretboard	Ralph Novak	364
Meet Hartley Peavey	George Manno	402
Finding Pickup Phase with a VOM	Ralph Novak	413
Reviews: <i>Guitars, Guitars, Guitars</i> by Crocker, Brinkmann, and Riggs	Mark Humpal	493
 Guitar, flattop (see also Bracing, flattop; Bridge, guitar; Repair, bridge; Repair, neck)		
The Great White (and Hot Pink) North	Tim Olsen	12
Which Spruce is That?	Dana Bourgeois	37
Aesthetics of Restoration	D. Alfieri	176
Adjustable Compensated Guitar Bridge	John Morgan	198
The Cranked Top	Brett Borton	208
Meet Wes Brandt	Jonathon Peterson	238
The Mandolin Orchestra in America	Joseph R. Johnson	262
Spruce Bridge Plate	Rion Dudley	384
Meet Dana Bourgeois	Gila Eban	386
Working with Koa	Bob Gleason	460
Voicing the Steel String Guitar	Dana Bourgeois	470
Dana Talks Wood	Gila Eban	476
Reviews: <i>Guitarmaking: Tradition and Tech.</i> by Cumpiano and Natelson	Cyndy Burton	490
Reviews: <i>Guitars and Mandolins in America</i> by Hartman	Joseph R. Johnson	492
Reviews: <i>Guitars, Guitars, Guitars</i> by Crocker, Brinkmann, and Riggs	Mark Humpal	493
Reviews: <i>The Steel String Guitar: Construction and Repair</i> by Young	David Thormahlen	495
 Guitar, harp		
The Mandolin Orchestra in America	Joseph R. Johnson	262
Reviews: <i>Guitars and Mandolins in America</i> by Hartman	Joseph R. Johnson	492
 Guitar, other		
Meet Ivo Pires	Jonathon Peterson	465
 Guitar, resophonic		
Gene Rhinehart's Resophonic Guitar Cones	Ed Vande Voorde	55

Harpsichord		
Meet George Smith	Jonathon Peterson	398
Health		
File Sharpening.....	Jonathon Peterson	76
Humidity		
Is Your Wood Ready to Use?	George Manno	24
Humor		
Heelblock Hank: His Story	Louis "Buddy" Hale and Michael H. Price	309
Inlay (see also Gluing)		
Who Made Marie Antoinette's Guitar?	Robert Lundberg	352
Who Made Marie Antoinette's Guitar?	R.E. Bruné	352
Instruments, other		
Meet Manuel Davila	H.E. Huttig	61
The Witten-Rawlins Collection	Joseph R. Johnson	100
Toward a Classic Guitar Family	Graham Caldersmith	222
Constructing a Medieval Lyre	John Taye	258
The Mandolin Orchestra in America	Joseph R. Johnson	262
Folk Harp Design	R.L. Robinson	284
Hurdy-Gurdies	Al Carruth	298
Meet George Smith	Jonathon Peterson	398
Windows in Time	Jonathon Peterson	406
The Swahili Kibangala	James Hillier	411
Lutherie in Romania	Gabriel Petric	420
Handmaking Zither Pins	Bruce Day	455
In Search of the Lost Cobza	Hardy B. Menagh	458
Irish Bouzouki	Rich Westerman	462
It Worked for Me	Francis Kosheleff	479
Questions	Cyndy Burton	480
Reviews: <i>Experimental Musical Instruments, Vol. II</i>	Tim Olsen	490
Reviews: <i>The Shrine to Music Musem</i>	Tim Olsen	492
Reviews: <i>Experimental Musical Instruments, Vol. III</i>	Tim Olsen	493
Ivory		
Meet Michael Yeats	Cyndy Burton	354
Lute		
Lute Making	Lawrence D. Brown	68
Meet Robert Lundberg	Kent and Aggie Rayman	78
The Witten-Rawlins Collection	Joseph R. Johnson	100
Fitting Lute Pegs	Lawrence D. Brown	260
Lute Action	Lawrence D. Brown	394
Reviews: <i>Make and Play a Lute</i> by Taylor	Jim Flynn	500

Mandolin

Routing Mandolin <i>f</i> -holes	John Schofield	81
Bending Mandolin Sides	Dick DeNeve	108
One Man's Mandolins	Steve Andersen	112
Steve Andersen's Precision Pantograph	Jonathon Peterson	115
Meet Gene Harner	Ted Davis	136
An Interview with Darryl Wolfe	Ted Davis	228
The Mandolin Orchestra in America	Joseph R. Johnson	262
A New Mandolin Family	Otis A. Tomas	368
It Worked for Me	James Toomey	478
Reviews: <i>Guitars and Mandolins in America</i> by Hartman	Joseph R. Johnson	492
Reviews: <i>Constructing a Bluegrass Mandolin</i> by Siminoff	David Riggs	503

Neck

Fret Crown Radius: A Cause of Pitch Error?	Steve Newberry	106
Head V-Joint	Duane Waterman	282
Fiberglass-Reinforced Peghead Repair	Kent Everett	296
Resetting a Dovetailed Neck	Jonathon Peterson	312
The Multi-Scale Fretboard	Ralph Novak	364
Elizabethan Connection	John Bromka	365
Guitar String Action	Don Teeter	389
Violin Q&A	Michael Darnton	486

Pegs

English Boxwood Peg	D.R. Patton	135
Fitting Lute Pegs	Lawrence D. Brown	260
Handmaking Zither Pins	Bruce Day	455
Violin Q&A	Michael Darnton	486

People

A Remembrance of Segovia	R.E. Bruné	2
A Meeting with Andrés	Richard Schneider	5
Epitaph for a Luthier: Miguel Company	H.E. Huttig	23
Gene Rhinehart's Resophonic Guitar Cones	Ed Vande Voorde	55
Meet Manuel Davila	H.E. Huttig	61
Meet Robert Lundberg	Kent and Aggie Rayman	78
Meet Hammond Ashley	Tim Olsen	82
An Interview with H.E. Huttig	David B. Fisher	109
One Man's Mandolins	Steve Andersen	112
Meet Gene Harner	Ted Davis	136
Meet Bob Rock	Clarke Prouty	142
Remembering Hermann Hauser II	H.E. Huttig	154
Meet Victor Gardener	Frederick C. Lyman, Jr.	158
Meet M.A. Kupfer	Jim Flynn	178
An Interview with Yuri Aleksik	Jim Flynn	183
S.I. Nalimov, the Master Balalaika Builder	A.I. Peresada	184
An Interview with Darryl Wolfe	Ted Davis	228
Meet Wes Brandt	Jonathon Peterson	238
Meet Frederick C. Lyman, Jr.	Jonathon Peterson	248
An Interview with Les Paul	George Manno	280
Meet Frank "Andy" Johnson	Jonathon Peterson	294
Meet Ralph Rabin	Jonathon Peterson	300
An Interview with Stewart Pollens	Cyndy Burton	316
Meet Bill McCaw	Jonathon Peterson	319
Meet Patrick Marshall	Jonathon Peterson	338
Meet Michael Yeats	Cyndy Burton	354

Meet Dana Bourgeois	Gila Eban	386
Meet Nancy Conescu	Cyndy Burton	392
Meet George Smith	Jonathon Peterson	398
Meet Hartley Peavey	George Manno	402
Windows in Time	Jonathon Peterson	406
Meet José Yacopi	Roberto Blinder	414
Lutherie in Romania	Gabriel Petric	420
Meet Ivo Pires	Jonathon Peterson	465
Reviews: <i>Antonio de Torres, Guitar Maker</i> by Romanillos	Burton and Elliott, Huttig, and Schneider	496

Philosophy

The White-Collar Luthier	Tim Shaw	26
Why Are Old Violins Superior?	Graham Caldersmith	46
The “Belly Art” of Japanese Lutherie	R.E. Bruné	86
José Romanillos: On the Path of Utter Dedication	Gila Eban and Duane Waterman	346
A New Mandolin Family	Otis A. Tomas	368

Physics, guitar

Harmonic Analysis of String Excitation Methods	J. and O. Jovičić	20
Archtop Guitars: Is Bigger Better?	Steve Grimes	58
Resonace	Roger Siminoff	99
Fret Crown Radius: A Cause of Pitch Error?	Steve Newberry	106
An Interview with H.E. Huttig	David B. Fisher	109
An Introduction to Guitar Acoustics	Thomas D. Rossing	124
Sound Radiation from Guitars	Thomas D. Rossing	144
Soundboard Bracing Considerations	Paul Wyszkowski	201
Sound Generator for Experimentation	Matt Fichtenbaum	203
Testing Tonewood Samples	Graham Caldersmith	400
Reviews: <i>Musical Acoustics — Selected Reprints</i> by Rossing	Steve Newberry	500

Physics, violin

Tuning Air Resonance	W.D. Allen	6
Design Factors in the String Bass	Frederick C. Lyman, Jr.	52
An Introduction to the Stradivarian Mystique	Tim Olsen	162

Plans

1948 D’Angelico New Yorker	Steve Andersen	139
Building the Prima Balalaika	Jim Flynn	190
An Interview with Darryl Wolfe	Ted Davis	228
Hammered Dulcimer	Al Carruth	242
A Baroque Guitar Restoration	R.E. Bruné	250
Constructing a Medieval Lyre	John Taye	258
Updating the Mountain Dulcimer	Hardy B. Menagh	290
The Swahili Kibangala	James Hillier	411
A Low Cost Bass	Frederick C. Lyman, Jr.	430
Irish Bouzouki	Rich Westerman	462
Questions	Cyndy Burton	480

Repair, bridge

Letter to the Editor	Arnold M.J. Hennig	221
A Baroque Guitar Restoration	R.E. Bruné	250
It Worked for Me	Gary Fish	478
It Worked for Me	John Kitakis	478

Repair, crack

Opening and Cleaning Cracks	Al Stancel	34
Maximum Mirrors	Dale Randall	318
Questions	Cyndy Burton	480

Repair, neck

Fiberglass-Reinforced Peghead Repair	Kent Everett	296
Heelblock Hank: His Story	Louis "Buddy" Hale and Michael H. Price	309
Resetting a Dovetailed Neck	Jonathon Peterson	312

Repair, other

Diagnosing with an Ohmmeter	Bob Petrus	31
How "Superglue" Works	Yves Parent	36
Two Tools for Inside Jobs	Harry Fleishman	60
Flattening Rosewood Potato Chips	Ervin Somogyi	66
Aesthetics of Restoration	D. Alfieri	176
Letter to the Editor	Arnold M.J. Hennig	221
ABaroque Guitar Restoration	R.E. Bruné	250
Heelblock Hank: His Story	Louis "Buddy" Hale and Michael H. Price	309
Reviews: <i>The Steel String Guitar: Construction and Repair</i> by Young	David Thormahlen	495

Restoration

The Maestro's Hauser	H.E. Huttig	4
Opening and Cleaning Cracks	Al Stancel	34
Museum Services for Luthiers	Laurence Libin	48
"Formula 411" Varnish	George Manno	67
Lute Making	Lawrence D. Brown	68
Meet Robert Lundberg	Kent and Aggie Rayman	78
The Witten-Rawlins Collection	Joseph R. Johnson	100
An Introduction to the Stradivarian Mystique	Tim Olsen	162
Aesthetics of Restoration	D. Alfieri	176
Classic Italian Violin Varnish	Geary Baese	214
An Interview with Darryl Wolfe	Ted Davis	228
ABaroque Guitar Restoration	R.E. Bruné	250
Fitting Lute Pegs	Lawrence D. Brown	260
The Mandolin Orchestra in America	Joseph R. Johnson	262
Violin Varnish Retouching	Michael Darnton	306
An Interview with Stewart Pollens	Cyndy Burton	316
Who Made Marie Antoinette's Guitar?	Robert Lundberg	352
Who Made Marie Antoinette's Guitar?	R.E. Bruné	352
Meet Michael Yeats	Cyndy Burton	354
Reflections on Segovia's Guitars	Jeffrey R. Elliott and Cyndy Burton	358
Wood Treatment and Sizing Materials	Rick Rubin	362
Violin Varnish	Michael Darnton	376
Questions	Cyndy Burton	480
Reviews: <i>Antonio de Torres, Guitar Maker</i> by Romanillos	Burton and Elliott, Huttig, and Schneider	496
Reviews: <i>Classic Italian Varnish</i> by Baese	Robert Lundberg	497

Reviews

<i>Experimental Musical Instruments, Vol. II</i>	Tim Olsen	490
<i>Guitarmaking: Tradition and Technology</i> by Cumpiano and Natelson	Cyndy Burton	490
<i>Guitars and Mandolins in America</i> by Hartman	Joseph Johnson	492
<i>The Shrine to Music Museum</i>	Tim Olsen	492
<i>Guitars, Guitars, Guitars</i> by Crocker, Brinkmann, and Riggs	Mark Humpal	493
<i>Tuning the Wood</i> by Hemphill	Mark Humpal	493
<i>Experimental Musical Instruments, Vol. III</i>	Tim Olsen	493

<i>Useful Measurements for Violinmakers</i> by Strobel	Al Stancel	494
<i>The Steel String Guitar: Construction and Repair</i> by Young	David Thormahlen	495
<i>Antonio de Torres, Guitar Maker</i> by Romanillos	Burton and Elliott, Huttig, and Schneider	496
<i>Classic Italian Varnish</i> by Baese	Robert Lundberg	497
<i>Make and Play a Lute</i> by Taylor	Jim Flynn	500
<i>Musical Acoustics — Selected Reprints</i> by Rossing	Steve Newberry	500
<i>Constructing a Bluegrass Mandolin</i> by Siminoff	David Riggs	503
<i>Wood Handbook</i> by Forest Products Laboratory	Nicholas Von Robison	504
<i>The Encyclopedia of Wood</i>	Nicholas Von Robison	504
<i>Wood in Australia</i> by Bootle	Nicholas Von Robison	504
<i>Understanding Wood</i> by Hoadley	Nicholas Von Robison	504
<i>Elseviers Wood Dictionary, Vol. I</i> by Beekman	Nicholas Von Robison	504
<i>Checklist of United States Trees</i> by Little	Nicholas Von Robison	504
<i>Imported Wood Purchasing Guide</i> by Int. Wood Trade Publications	Nicholas Von Robison	505
<i>Tropical Timbers of the World</i> by Chudnoff	Nicholas Von Robison	505
<i>What Wood is That?</i> by Edlin	Nicholas Von Robison	505
<i>Whittling and Woodcarving</i> by Tangerman	Nicholas Von Robison	505
<i>Eisenbrand Inc.</i> by Exotic Hardwoods	Nicholas Von Robison	505
Rosette		
Traditional Rosette Making	H.E. Huttig	104
Six Lutherie Tools	Jeffrey R. Elliott and Jonathon Peterson	330
Questions	Cyndy Burton	480
Schools		
Meet Nancy Conescu	Cyndy Burton	392
Questions	Cyndy Burton	480
Sharpening		
File Sharpening	Jonathon Peterson	76
Six Lutherie Tools	Jeffrey R. Elliott and Jonathon Peterson	330
Skin		
The Swahili Kibangala	James Hillier	411
Strings, guitar		
String Making: Old and New	James Rickard	320
Questions	Cyndy Burton	480
Strings, other		
Harmonic Analysis of String Excitation Methods	J. and O. Jovičić	20
String Metals and Windings	Joseph Valentich	105
Bass String Update	Frederick C. Lyman, Jr.	197
Hammered Dulcimer String Pins and Loops	Edward Damm	236
String Making: Old and New	James Rickard	320
Hammered Dulcimer Partials	Nicholas Von Robison	418
Strings, tension		
String Metals and Windings	Joseph Valentich	105
Strings, violin		
String Making: Old and New	James Rickard	320
Synthetics		
Fiberglass-Reinforced Peghead Repair	Kent Everett	296
Questions	Cyndy Burton	480

Tools, clamps

Two Tools for Inside Jobs	Harry Fleishman	60
Flattening Rosewood Potato Chips	Ervin Somogyi	66
Thrifty Wooden C-Clamp	C.F. Casey	429

Tools, created

Two Tools for Inside Jobs	Harry Fleishman	60
Flattening Rosewood Potato Chips	Ervin Somogyi	66
Bending Mandolin Sides	Dick DeNeve	108
Steve Andersen's Precision Pantograph	Jonathon Peterson	115
Letter to the Editor	Arnold M.J. Hennig	221
Special Caliper for Cello	Jack Levine	246
Resetting a Dovetailed Neck	Jonathon Peterson	312
Maximum Mirrors	Dale Randall	318
Six Lutherie Tools	Jeffrey R. Elliott and Jonathon Peterson	330
An Inexpensive Bow Winding Lathe	Gary Fish	412
Thrifty Wooden C-Clamp	C.F. Casey	429
Graduation Marking Device	Michael Darnton	449

Tools, hand

Two Tools for Inside Jobs	Harry Fleishman	60
File Sharpening	Jonathon Peterson	76
The "Belly Art" of Japanese Lutherie	R.E. Bruné	86
Special Caliper for Cello	Jack Levine	246
Six Lutherie Tools	Jeffrey R. Elliott and Jonathon Peterson	330
Questions	Cyndy Burton	480
Violin Q&A	Michael Darnton	486

Tools, jigs

Routing Mandolin <i>f</i> -holes	John Schofield	81
Collapsible Cello Mold	Jack Levine	194

Tools, measuring

Is Your Wood Ready to Use?	George Manno	24
Special Caliper for Cello	Jack Levine	246
Finding Pickup Phase with a VOM	Ralph Novak	413
Graduation Marking Device	Michael Darnton	449
Voicing the Steel String Guitar	Dana Bourgeois	470
Dana Talks Wood	Gila Eban	476

Tools, other

It Worked for Me	C.F. Casey	478
It Worked for Me	John Kitakis	478

Tools, power

Routing Mandolin <i>f</i> -holes	John Schofield	81
The "Belly Art" of Japanese Lutherie	R.E. Bruné	86
Steve Andersen's Precision Pantograph	Jonathon Peterson	115
Making Bridges Using Power Tools	Kent Rayman	289
An Inexpensive Bow Winding Lathe	Gary Fish	412

Tuners

Remembering Hermann Hauser II	H.E. Huttig	154
Hammered Dulcimer Tuning Tricks	Edward Damm	335

Tuning, temperament		
Hammered Dulcimer Tuning Tricks	Edward Damm	335
Hammered Dulcimer Partials	Nicholas Von Robison	418
Ukulele		
Working with Koa	Bob Gleason	460
Vihuela		
Meet José Yacopi	Roberto Blinder	414
Viol		
Reviews: <i>The Shrine to Music Musem</i>	Tim Olsen	492
Violin (see also Physics, violin)		
Tuning Air Resonance	W.D. Allen	6
Making Organic Colorants Light Safe	George Manno	32
Opening and Cleaning Cracks	Al Stancel	34
Why Are Old Violins Superior?	Graham Caldersmith	46
Meet Manuel Davila	H.E. Huttig	61
"Formula 411" Varnish	George Manno	66
Meet Hammond Ashley	Tim Olsen	82
The Witten-Rawlins Collection	Joseph R. Johnson	100
English Boxwood Peg	D.R. Patton	135
Meet Gene Harner	Ted Davis	136
Meet Victor Gardener	Frederick C. Lyman, Jr.	158
Letter to the Editor	John Randerson	161
An Introduction to the Stradivarian Mystique	Tim Olsen	162
Notes on Preparing Lake Pigments	Geary Baese	206
Classic Italian Violin Varnish	Geary Baese	214
Violin Horror Stories	Al Stancel	239
Meet Frederick C. Lyman, Jr.	Jonathon Peterson	248
Meet Ralph Rabin	Jonathon Peterson	300
Violin Varnish Retouching	Michael Darnton	306
Letter to the Editor	Michael Darnton	345
Violin Bridge Tuning	Al Carruth	349
Wood Treatment and Sizing Materials	Rick Rubin	362
Violin Varnish	Michael Darnton	376
Meet Nancy Conescu	Cyndy Burton	392
Waterglass vs. Calcium Silicate	John Chipura	393
Graduation Marking Device	Michael Darnton	449
Meet Ivo Pires	Jonathon Peterson	465
Questions	Cyndy Burton	480
Violin Q&A	Michael Darnton	486
Reviews: <i>The Shrine to Music Musem</i>	Tim Olsen	492
Reviews: <i>Useful Measurements for Violinmakers</i> by Strobel	Al Stancel	494
Wood, dealers		
Stalking Northwest Tonewoods	Bruce Harvie	210
Logging Luthiers	Banchero, Burton, and Toon	446

Wood, hard

Flattening Rosewood Potato Chips	Ervin Somogyi	66
Stalking Northwest Tonewoods	Bruce Harvie	210
Meet Frank "Andy" Johnson	Jonathon Peterson	294
Amazon Timbers Update	Todd Taggart	302
Working with Koa	Bob Gleason	460
Voicing the Steel String Guitar	Dana Bourgeois	470
Dana Talks Wood	Gila Eban	476
Questions	Cyndy Burton	480

Wood, other

Is Your Wood Ready to Use?	George Manno	24
Meet Wes Brandt	Jonathon Peterson	238
Testing Tonewood Samples	Graham Caldersmith	400
Meet José Yacopi	Roberto Blinder	414
A Low Cost Bass	Frederick C. Lyman, Jr.	430
Try Cherry!	John Calkin	469
Questions	Cyndy Burton	480
Reviews: <i>Wood Handbook</i> by Forest Products Laboratory	Nicholas Von Robison	504
Reviews: <i>The Encyclopedia of Wood</i>	Nicholas Von Robison	504
Reviews: <i>Wood in Australia</i> by Bootle	Nicholas Von Robison	504
Reviews: <i>Understanding Wood</i> by Hoadley	Nicholas Von Robison	504
Reviews: <i>Elseviers Wood Dictionary, Vol. I</i> by Beekman	Nicholas Von Robison	504
Reviews: <i>Checklist of United States Trees</i> by Little	Nicholas Von Robison	504
Reviews: <i>Imported Wood Purchasing Guide</i> by Int. Wood Trade Pub.	Nicholas Von Robison	505
Reviews: <i>Tropical Timbers of the World</i> by Chudnoff	Nicholas Von Robison	505
Reviews: <i>What Wood is That?</i> by Edlin	Nicholas Von Robison	505
Reviews: <i>Whittling and Woodcarving</i> by Tangerman	Nicholas Von Robison	505
Reviews: <i>Eisenbrand Inc.</i> by Exotic Hardwoods	Nicholas Von Robison	505

Wood, soft

Which Spruce is That?	Dana Bourgeois	37
Meet Robert Lundberg	Kent and Aggie Rayman	78
The Cranked Top	Brett Borton	208
Stalking Northwest Tonewoods	Bruce Harvie	210
Meet Frank "Andy" Johnson	Jonathon Peterson	294
Spruce Bridge Plate	Rion Dudley	384
Logging Luthiers	Banchero, Burton, and Toon	446
Voicing the Steel String Guitar	Dana Bourgeois	470
Dana Talks Wood	Gila Eban	476
Questions	Cyndy Burton	480

Wood, trees

Meet Victor Gardener	Frederick C. Lyman, Jr.	158
Stalking Northwest Tonewoods	Bruce Harvie	210
Amazon Timbers Update	Todd Taggart	302
Logging Luthiers	Banchero, Burton, Toon	446
Reviews: <i>Wood Handbook</i> by Forest Products Laboratory	Nicholas Von Robison	504
Reviews: <i>The Encyclopedia of Wood</i>	Nicholas Von Robison	504
Reviews: <i>Wood in Australia</i> by Bootle	Nicholas Von Robison	504
Reviews: <i>Understanding Wood</i> by Hoadley	Nicholas Von Robison	504
Reviews: <i>Elseviers Wood Dictionary, Vol. I</i> by Beekman	Nicholas Von Robison	504
Reviews: <i>Checklist of United States Trees</i> by Little	Nicholas Von Robison	504
Reviews: <i>Imported Wood Purchasing Guide</i> by Int. Wood Trade Pub.	Nicholas Von Robison	505
Reviews: <i>Tropical Timbers of the World</i> by Chudnoff	Nicholas Von Robison	505
Reviews: <i>What Wood is That?</i> by Edlin	Nicholas Von Robison	505
Reviews: <i>Whittling and Woodcarving</i> by Tangerman	Nicholas Von Robison	505
Reviews: <i>Eisenbrand Inc.</i> by Exotic Hardwoods.....	Nicholas Von Robison	505

Zither

Windows in Time	Jonathon Peterson	406
Questions	Cyndy Burton	480