

Contents

List of Illustrations	vii
Acknowledgments	ix
Explanations and Definitions	xiii
Abbreviations	xiv
Maps	xix
1 Origins	
Musical Sound	1
Voices	2
Lithophones	3
Percussion Bars	6
Bells and Gongs	9
Rattles	14
<i>Interlude A: Instruments of Protection</i>	18
2 Drums	24
Trouble with Tension	27
Drums	27
Tubular Drums	28
<i>Interlude B: Musicians</i>	29
3 Flutes and Recorders	41
Monotone	44
Whistling in the Wind	44
Vessel Flutes	45
Penny Whistles and Recorders	50
Transverse Flutes	52
Harmonic Flutes	59
<i>Interlude C: The Medieval Renaissance and the First Industrial Revolution</i>	65
4 Reeds	70
Straws in the Wind	73
Oboes and Bassoons	73
Clarinets and Other Single Reeds	80
Free Reeds	85
<i>Interlude D: The Ideal Accompaniment</i>	94
	94
	100

5 "Brass" Instruments: Trumpets and Horns	103
<i>Interlude E: The Second Industrial Revolution</i>	116
6 String Instruments	125
From Bows to Lyres, Harps, and Lutes	125
Lyres	128
Harps	132
Zithers	140
Stringed Keyboards	145
Plucked Lutes	152
Bowed Lutes aka Fiddles	161
<i>Interlude F: Messengers</i>	180
7 Pipe Organs	188
<i>Interlude G: Symbiosis</i>	194
8 Electrophones	202
<i>Interlude H: Newly Created, Recognized, or Discovered Instruments</i>	205
ix Afterword: Archaeology and Other -ologies	209
xiii Classification of Instruments	210
xvii Scales and Music	214
xix The Sounds of Science	217
i Bibliography	225
3 Index of Instruments and Accessories	235
3 Index of Places and Peoples	245
6 General Index	249
9 About the Author	257
14	Bells and Gong
18	Rattles
24	<i>Interlude A: Instruments of Protection</i>
27	2 Drums
27	Trouble with Tension
28	Drum
29	Tubular Drums
41	<i>Interlude B: Musicians</i>
44	3 Flutes and Recorders
44	Monotone
45	Whistling in the Wind
50	Vessel Flutes
52	Penny Whistles and Recorders
59	Transverse Flutes
62	Harmonic Flutes
70	<i>Interlude C: The Medieval Renaissance and the First Industrial Revolution</i>
73	4 Reeds
73	Staws in the Wind
80	Oboes and Bassoons
85	Clarinets and Other Single Reeds
94	Free Reeds
100	<i>Interlude D: The Ideal Accompaniment</i>