

CONTENTS

1	Listening for Knowledge: Introduction	1
	<i>Acoustic Signatures</i>	1
	<i>Sonic Skills</i>	4
	<i>Sensory Practices in the Sciences</i>	7
	<i>Cases of Sound and Listening</i>	15
	<i>Sensory Selectivity</i>	18
	<i>References</i>	22
2	Sonic Signs: Turning to, Talking About, and Transcribing Sound	29
	<i>Introduction</i>	29
	<i>Hazy Sounds: Verbalizations and Descriptions of the Audible</i>	31
	<i>Artful Drawings: Musical and Graphic Notation</i>	40
	<i>Save the Patient: Survival of Embodied Representation</i>	47
	<i>Conclusions</i>	51
	<i>References</i>	55
3	Modes of Listening: Why, How and to What?	61
	<i>Introduction</i>	62
	<i>Existing Taxonomies of Listening: Analytic and Actors’ Categories</i>	63
	<i>Purposes of Listening: Why Scientists, Engineers, and Physicians Listen</i>	67

	<i>Ways of Listening: How Scientists, Engineers, and Physicians Listen</i>	70
	<i>Sonic Skills: Virtuosity in Shifting Modes and Handling Tools</i>	74
	<i>The Missing Third Dimension: Listening to What?</i>	78
	<i>Conclusions</i>	80
	<i>References</i>	82
4	Resounding Contestation: The Ambiguous Status of Sonic Skills	87
	<i>Twittering Timbrados</i>	87
	<i>Beyond the Infallible Ear: Repeated Listening and Sensory Calibration</i>	91
	<i>At a Glance: Mechanical Visualization and Professional Audition</i>	94
	<i>Meter Reading as a Technology of Trust in Expert–Customer Relations</i>	98
	<i>There Is More Than Meets the Eye: Struggling with Trained Ears in Sonification</i>	102
	<i>Conclusions</i>	106
	<i>References</i>	108
5	Popping Up: The Continual Return of Sound and Listening	113
	<i>Hearing Gravitational Waves</i>	113
	<i>The Digital: Portable and Versatile Sound Technologies</i>	115
	<i>Somatic Vigilance: Attuning to Instruments and Time</i>	117
	<i>Auditory Sublime: Promising Wonder and Awe Through Sound</i>	123
	<i>Conclusions</i>	125
	<i>References</i>	127
6	Ensembles of Sonic Skills: Conclusions	131
	<i>Introduction</i>	131
	<i>Timing—And the Relations Between Science and Technology</i>	132
	<i>Trust—And the Relations Between the Sciences and the Professions</i>	135
	<i>Accountability—And the Relations Between Science and Society</i>	138

<i>Epilogue</i>	141
<i>References</i>	144
References	147
Name Index	163
Subject Index	167