## Contents

	List of Figures	$\imath x$
	Acknowledgments	xiv
	Preface: Toward a Renaissance	xix
	In Conclusion	xxiv
1	Introduction: Making the Case for Learning to Draw in Changing Times	1
2	Beginnings: Drawing as an Innate Human Capacity and a Matter of the Mind	27
3	What's in a Name? The Uses of Philosophy in Addressing Drawing Education	59
4	Drawing by Design: Connecting Drawing and Design through Mathematics	88
5	Drawing as Seeing: Observational Drawing in Art, Science, and Medicine	129
6	Drawing as Experience and Experiment: Creativity in Art and Experimental Science	170
7	Drawing as Expression: Self-Knowledge and Societal Concerns	214
8	Languages of Drawing: Semiotics and the Search for Fundamentals	277

V111	Contents

Toward a Comprehensive 21st Century Philosophy	
of Drawing Education	323
Postscript	348
References	352
Index	364
	of Drawing Education  Postscript References