

Contents

<i>Acknowledgments</i>	<i>page vii</i>
Introduction: Themes and Issues	1
PART I. REASON, SCIENCE, AND MATHEMATICS	
1 Science as a Triumph of the Human Spirit and Science in Crisis: Husserl and the Fortunes of Reason	21
2 Mathematics and Transcendental Phenomenology	46
3 Free Variation and the Intuition of Geometric Essences: Some Reflections on Phenomenology and Modern Geometry	69
PART II. KURT GÖDEL, PHENOMENOLOGY, AND THE PHILOSOPHY OF MATHEMATICS	
4 Kurt Gödel and Phenomenology	93
5 Gödel's Philosophical Remarks on Logic and Mathematics	112
6 Gödel's Path from the Incompleteness Theorems (1931) to Phenomenology (1961)	125
7 Gödel and the Intuition of Concepts	149
8 Gödel and Quine on Meaning and Mathematics	177
9 Maddy on Realism in Mathematics	201
10 Penrose on Minds and Machines	215

vi	<i>Contents</i>
PART III. CONSTRUCTIVISM, FULFILLABLE INTENTIONS, AND ORIGINS	
11	Intuitionism, Meaning Theory, and Cognition 227
12	The Philosophical Background of Weyl’s Mathematical Constructivism 248
13	Proofs and Fulfillable Mathematical Intentions 276
14	Logicism, Impredicativity, Formalism: Some Remarks on Poincaré and Husserl 294
15	The Philosophy of Arithmetic: Frege and Husserl 314
	<i>Bibliography</i> 337
	<i>Index</i> 349