KARL MENGER

SELECTED PAPERS IN LOGIC AND FOUNDATIONS, DIDACTICS, ECONOMICS



SPRINGER-SCIENCE+BUSINESS MEDIA, B.V.

TABLE OF CONTENTS

ACKNOWI	LEDGMENTS	xi
INTRODU	CTION	1
PA	RT I. PAPERS INTRODUCING LOGICAL TOLERANCE	
	Logical Tolerance in the Vienna Circle	11
Chapter 1	The New Logic (1933)	17
	Appendix (1937)	42
Chapter 2	On Intuitionism (1930)	46
	PART II. OPUSCULA LOGICA	
Chapter 3	Meaningfulness and Structure (1930)	61
	Appendix (1978)	63
Chapter 4	A New Point of View on the Logical Connectives (1978)	68
Chapter 5	An Intuitionistic-Formalistic Dictionary of Set Theory (1928)	79
Chapter 6	Ultrasets and the Paradoxes of Set Theory (1928)	88
Chapter 7	A Logic of the Doubtful. On Optative and Imperative Logic (1939)	91
	20810 (1707)	
PART	III. FUNDAMENTAL CONCEPTS IN PURI AND APPLIED MATHEMATICS	Ξ
Chapter 8	A Counterpart of Occam's Razor (1960, 1961)	105
Chapter 9	A Theory of the Application of the Function Concept	
•	to Science (1970)	136
Chapter 10	Variables, Constants, Fluents (1961)	144
hapter 11	Wittgenstein on Formulae and Variables (1978)	153

PART IV. DIDACTICS OF MATHEMATICS

Introduction	n	161
Chapter 12	A New Approach to Teaching Intermediate	
	Mathematics (1958)	163
Chapter 13	Why Johnny Hates Math (1956)	174
Chapter 14	On the Formulation of Certain Questions in	
	Arithmetic (1956)	185
Chapter 15	On the Design of Grouping Problems and Related	
	Intelligence Tests (1953)	189
Chapter 16	The Geometry Relevant to Modern Education (1971)	199
		-
PART		F
	SOME GEOMETRIC IDEAS	
Chapter 17	On Definition, Especially of Dimension (1921-1923,	
	1928)	207
Chapter 18	Square Circles (The Taxicab Geometry) (1952, 1978)	217
Chapter 19	The Algebra of Geometry (1978)	220
Chapter 20	Geometry and Positivism. A Probabilistic	
	Microgeometry (1970)	225
	PART VI.	
Chapter 21	My Memories of L. E. J. Brouwer (1978)	237
PART	Γ VII. ECONOMICS. META-ECONOMICS	
Chapter 22	The Role of Uncertainty in Economics (1934)	259
Chapter 23	Remarks on the Law of Diminishing Returns. A	
	Study in Meta-Economics (1936)	279
P.A	ART VIII. GULLIVER'S INTEREST IN	
	MATHEMATICS	
	MILL AND MILLIAND	
Chapter 24	Gulliver in the Land without One, Two, Three (1959)	305

CONTENTS	ix	
Chapter 25 Gulliver's Return to the Land without One, Two,		
Three (1960) Chantar 26 Callivar in Applyland (1960)	315 320	
Chapter 26 Gulliver in Applyland (1960)	320	
Karl Menger: Principal Dates		
FIELDS OF RESEARCH	325	
The state of the s	323	
BIBLIOGRAPHY OF WORKS BY KARL MENGER	327	
INDEX OF NAMES	339	