TABLE OF CONTENTS

EDI	TORIAL PREFACE	v
FOR	EWORD	xiii
I.	THE SEMANTIC PROBLEM-SOURCES AND THEMES	1
II.	THE CONCEPT OF SEMANTICS AND PREREQUISITES	
	FOR THE INVESTIGATION OF SEMANTIC PROBLEMS	10
	 The Concepts of Object Language and Metalanguage The Semantic Level of Analysis and its Relations to the 	11
	Syntactic and Pragmatic Levels	15
III.	SEMANTIC CONCEPTS	31
	1. Semantic Concepts and their Relations in Common	
	Parlance	31
	A. Express, state that	31
	B. Signify	35
	C. Denote	41
	D. Represent	42
	2. Semantic Concepts in Formalised Languages	43
	A. The Concept of a Formalised Language	43
	B. The Interpretation of a Formalised Language	47
	C. The Introduction of Semantic Concepts by Definition	50
	D. The Axiomatic Introduction of Semantic Concepts	57
IV.	THE SEMANTICS OF LOGICAL CONCEPTS	61
	1. Problems of L-Semantics	62
	A. The Introduction of L-Concepts as Non-Defined	
	Terms	64
	B. The Concepts of 'Logical Range' and 'State Des-	
	cription'	66
	C. The Concepts of 'Logical Content' and 'Semantic	~.
	Information'	74
	D. Meaning Postulates	83

	2. The Semantics of Logical Concepts on the Basis of	
	the Concept of Interpretation	9
	A. The Concepts of Model and Interpretation	9:
	B. The Most Important Definitions of Logical Semantic	
	Concepts on the Basis of 'Interpretation'	9
	C. The Concept of 'Translation'	100
V.	SENSE AND DENOTATION	103
	1. Frege's Conception of Sense and Denotation	103
	A. Sense, Denotation and the Identity of Names	103
	B. The Concept of 'Name'	108
	C. Frege's Extension of the Semantic Characteris-	
	ation of Names	111
	2. The Theory of Descriptions	114
	A. The Concept of Denoting Phrase	115
	B. The Differentiation of Descriptions	117
	C. Individual Descriptions and Statement Functions	118
	3. The Method of Extension and Intension	122
	A. The Concepts of 'Class' and 'Property'	123
	B. The Concepts of 'Extension' and 'Intension'	128
	C. Extensional and Intensional Context	134
	D A Possible Amplification of the Method of Extension	
	and Intension	138
	4. The Problem of Naming	143
	A. The Name Relation	143
	B. Antinomies of the Name Relation	149
	5. Synonymity	151
	A. The Concept of 'The Same Meaning'	151
	B. Synonymity, Intension and Intensional Isomorphism	155
	C. Synonymity, Pragmatic Intension and Pragmatic	
	Criteria	158
/Ι.	THE CRITERION OF SENSE	166
	1. The Formulation of the Problem	166
	A. Conceptions of a Criterion of Sense	166
	B. The Criterion of Sense and the Problem of Linguistic	
	and Sense Intension	167
	2. The Operationist Criterion of Sense	170
	A. Einstein's Definition of Simultaneity and the Opera-	
	tionist Criterian of Sansa	171

TABLE OF CONTENTS

		B. Critical Comments on the Operationist Criterion	
		of Sense	172
	3.	The Verifiability Criterion of Sense	177
		A. Motives for the Original Version of the Verifi-	
		ability Criterion	177
		B. Different Degrees of the Verifiability Criterion	183
		C. The Logical Nature of the Verifiability Criterion	186
	4.	The Translatability Criterion of Sense	187
		A. The Concept of 'Having a Sense' as a Primitive	
		Concept of the Semantic Metalanguage	187
		B. Pragmatic Limitations of the Translatability Criterion	189
		C. The Concept of 'Having a Sense' as a Many-Place	
		Predicate	192
	5.	Sense and the Empirical	194
		A. The Concept of 'Empirical Predicates'	194
		B. Dispositional Predicates	198
	6.	'Theoretical Concepts' and the Relativity of the Empirical	
		Starting Point	202
		A. The Problem of Scientific Empiricism	202
		B. The Admissibility of Theoretical Concepts	208
		C. Ways of Interpreting Theoretical Concepts	210
	7.	Problems of Sense and Reduction Procedures	217
		A. A Critique of Empiricist Reductionism	217
		B. The Ontological Aspect of Reduction; the Theory	
		of Levels	220
		C. The Semantic and Pragmatic Aspects of Reduction	224
/II.	v .	AGUENESS	229
	1.	Vagueness and the Un-Sharpness of Boundaries	229
		A. Vagueness and the Empirical	230
		B. Vagueness and Theoretical Concepts and Construc-	
		tions	232
		C. Vagueness and the So-Called Fringe	233
	2.	Sources of Vagueness and Ways of Analysing Vagueness	235
		A. The Pragmatic Aspects of Vagueness	235
	_	B. The Semantic Aspects of Vagueness	239
	3.	Vagueness, Ambiguity and Denotational Opacity	242
		A. Ambiguity	242
		B. Denotational Opacity	243
		C. Extremes and Graduated Differences	244

VIII.	SEMANTICS AND SOME PROBLEMS OF ONTOLOGY	24
	1. Semantics and Ontic Decision	24′
	A. The Use of Terms and Ontic Commitments	248
	B. Linguistic Framework and So-Called External and	
	Internal Questions	25
	2. Nominalism, Platonism and Semantics	255
	A. The Reification of Abstract Entities and the Problem	
	of Nominalism	255
	B. 'Praeter Necessitatem'	257
	C. The Problem of Similarity and Identity	260
	3. Analytical and Synthetic Aspects in the Language of	
	Science	265
	A. The Traditional Problems and Tasks of Semantics	265
	B. Degrees of Analyticity	267
	C. Some Methodological Problems	270
	-	
IX.	AN OUTLINE OF THE EVALUATION OF THE RESULTS OF	
	SCIENTIFIC ACTIVITY IN TERMS OF SEMANTIC	
	INFORMATION	274
	1. The Scope for Evaluating Scientific Results	274
	2. Brillouin's Attempt at an Informational Evaluation of	
	Scientific Laws	277
	3. Linguistic Devices in Tasks of the Systematising Type	280
	4. The Concept of 'Decision Base' and the Evaluation	
	of a Decision Base	286
	5. The Relevance of A Posteriori Data	293
	6. Evaluation of the Goal Complex and the Concept of	
	'Epistemic Gain'	298
Χ.	THE SEMANTICS OF PREFERENCE ATTITUDES	304
	1. The Role of Preference and Preference Ordering	304
	2. The Comparability Principle as a Presupposition for the	
	Construction of a Preference System	306
	3. Preferences of Things and Preferences of States of	200
	Affairs	309
	4. Preference 'Ceteris Paribus'	315
	5. The Concept of 'Preferable States of Affairs' as a Qualit-	210
	ative Concept	318
	6. Preference as a Propositional Attitude	321
	Conclusions	323

	TABLE OF CONTENTS	X
XI.	THE PROBLEM OF INFORMATIONAL SYNONYMITY 1. The Traditional (Leibnizian) Criterion of Identity and	325
	the Problem of Semantic Identification	325
	2. The 'Salva Veritate' Criterion	328
	3. The Criterion of 'Salva Relatione' and the Concept of 'Informational Symptomists'	329
	'Informational Synonymity' 4. Informational Relevance and the Concept of 'Strict	329
	Informational Synonymity'	335
XII.	AN OUTLINE OF THE SEMANTIC EVALUATION OF	
	GRAPHIC COMMUNICATION	338
	1. Introductory Remarks	338
	2. Graphic Communication	340
	3. The Semantics of a Picture Shape	345
	4. Informational Synonymity and the Informational Evalu-	
	ation of a Picture Shape	347
	5. Informational Synonymity and the Time Factor	350
NOT	NOTES	
REFERENCES		379
INDEX OF NAMES		386
INDEX OF SUBJECTS		388