Contents

PREFACE			
INT		ICTION: THE TEMPERATURE OF A HOT	ix
1.		TARSKI PROGRAM: HIJACKING THE TRUTH UT REFERENCE	1
		duction: Truth Definition and Semantics itive Reference and Satisfaction	1
		antic Closedness of Languages and the Paradox of	6
1.4.		There Still Be Truth? Physicalism in Semantics	10
2.	REF	ERENCE AND THEORY OF REFERENCE	14
2.1.	Sets:	Finite and Infinite	14
2.2.	Cante	or's Diagonal Method	17
2.3.	Mode	el Theory and Model Theoretic Semantics	20
2.3.1	١.	Model Theory	20
2.3.2	2.	Principles of a Montague Grammar	22
2.3.2	2.1.	Introduction: an ambitious program	22
2.3.2	2.2.	Structure of a Montague Grammar	23
2.3.2	2.2.1.	Languages and categorial grammars	24
2.3.2	2.2.2.	The semantic component in the Montague system	26
2.3.2	2.2.3.	Extensions, intensions and possible worlds	27
		Realist Who Came in from the Cold: Hilary Putnam	33
2.4.1	١.	Realism in semantics	34
247)	The Löwenheim-Skolem Theorem	35

2.4.3.	The Skolemization of the referent: a semantic	40
2.4.4.	perversion? The metaphysical realist according to Putnam:	10
2.1.1.	brains in a vat	48
2.4.5.	Internal realism	62
		02
3. INS	SIDE OUT: REFERENCE AND METALOGIC	74
3.1. Göd	lel's Incompleteness Theorems: An Informal	74
	erview	
3.1.1.	Formal-axiomatic systems	75
3.1.2.	The axiomatization of arithmetic	75
3.1.3.	Metalogic and Metamathematics	78
3.1.4.	Gödel numbering and recursive predicates	79
3.1.5.	The Number of the Beast: the Gödel sentence and	83
	Gödel's first incompleteness theorem	
3.1.6.	The unprovability of consistency: Gödel's second	87
	theorem	
2.2 The	Wanda and dis Tillian E. Tillian E.	10-0-2
3.2. The	Words and the Things: From Intension to Reference	89
3.2.1.	Models in intensional logic	90
3.2.2.	Intensions and the Grelling Paradox	92
3.2.2.1.	Intension, meaning and reference	92
3.2.2.2.	The Grelling Paradox	94
3.2.2.3.	Terminating and non-terminating computations	95
3.2.2.4.	Intensions and the 'Terminates'-function	97
3.2.2.5.	The Language-Level Approach to the Grelling	101
U 107 166	Paradox: a descriptive misunderstanding	
3.2.3.	The Von Münchhausen effect: Semantic	102
	incompleteness	
3.2.4.	Truth-conditional consistency	110
3.2.5.	Propositional attitudes, supervaluations and truth-	115
	value gaps	
3.2.6.	A sidelong glance at meaning: the diagonalization	122
	procedure in semantics	
3.2.7.	Non-standard meanings and partial standard	128
	models	
3.2.7.1.	Property spaces and proto-semantics	128
3.2.7.2.	Diagonal Individuals: Frankenstein in search of a	137
	body	
	1992	

3.3. The	Metalogical Approach: Some Consequences and	142
Con	clusions	
3.3.1.	Metalogical realism	143
3.3.1.1.	Antirealism: the little truth	143
3.3.1.2.	Kripke's Pierre problem	153
3.3.2.	Metalogical essentialism	160
	TLINE OF A LOGIC WITH NON-STANDARD ANINGS	181
4.1. Mod	lels as Conceptual Structures	181
	tax and Semantics of the Logic IL+: Sortal	185
Inte	nsional Type-Logic With Non-Standard Models	
4.2.1.	Syntax of IL+	185
4.2.1.1.	Types	185
4.2.1.2.	Basic expressions	186
	Formation rules of IL+	186
4.2.2.	Semantics of IL+	186
4.2.2.1.	Complete and partial functions	186
4.2.2.2.	A partial standard model for IL+	187
4.2.2.3.	Non-standard models for IL+	192
BIBLIOGRAPHY		
INDEX		