

# Contents

<b>1</b>	<b>Theories of Meaning</b>	<b>1</b>
1.1	The Object of Study . . . . .	2
1.2	Sense and Reference . . . . .	3
1.3	Assertion, Denial, and Positions . . . . .	7
1.4	The Senses of the Sentential Connectives . . . . .	9
1.4.1	Structural Rules . . . . .	10
1.5	Constraints on a Theory of Sense . . . . .	16
1.6	Models . . . . .	22
1.7	Cut Elimination . . . . .	29
<b>2</b>	<b>A Hypersequent Approach to Modal Logic</b>	<b>36</b>
2.1	Introduction . . . . .	37
2.2	Modal Logic . . . . .	38
2.2.1	Model Theory . . . . .	38
2.2.2	Sequents . . . . .	40
2.3	Hypersequent Modal Logics . . . . .	45

2.3.1	System K . . . . .	46
2.3.2	System D . . . . .	52
2.3.3	System T . . . . .	54
2.3.4	System S4 . . . . .	56
2.3.5	System B . . . . .	58
2.3.6	System S5 . . . . .	60
2.4	Technical Results . . . . .	64
2.4.1	Interdefinability of $\Box$ and $\Diamond$ . . . . .	64
2.4.2	Uniqueness . . . . .	65
2.4.3	Cut Elimination . . . . .	67
2.5	Discussion . . . . .	73
<b>3</b>	<b>Hypersequent System D</b> . . . . .	<b>75</b>
3.1	Inferentialism and Meaning . . . . .	76
3.2	Sequent System D . . . . .	80
3.3	Hypersequent System D . . . . .	82
3.4	Preliminaries . . . . .	85
3.5	Important Lemmas . . . . .	86
3.5.1	Reduction Lemmas . . . . .	86
3.5.2	Modal Lemmas . . . . .	94
3.6	Cut Elimination . . . . .	102
3.6.1	Important Lemmas for Cut Elimination . . . . .	102
3.6.2	Cut Elimination . . . . .	106
3.7	Uniqueness . . . . .	118

3.8	Equivalence To Sequent System D . . . . .	119
<b>4</b>	<b>Sellars, Second-Order Quantification, and Ontological Commitment</b>	<b>127</b>
4.1	A Quinean Argument . . . . .	130
4.2	Not All Quantifiers Supposit . . . . .	135
4.2.1	The First Argument . . . . .	135
4.2.2	The Second Argument . . . . .	143
4.3	An Alternative Account of Quantification . . . . .	146
4.4	A Grammatical Interpretation of ‘ $\exists ffa$ ’ . . . . .	156
4.5	Proof of Claims . . . . .	158
<b>5</b>	<b>Atomic Ontology</b>	<b>160</b>
5.1	Introduction . . . . .	161
5.2	Model-Theory and Quine’s Dictum . . . . .	165
5.2.1	Ontological Commitment . . . . .	166
5.3	Proof Theory and Ontological Commitment . . . . .	168
5.3.1	Proof-Theory and Ontological Commitment . . . . .	173
5.4	Discussion . . . . .	179
5.4.1	Second-Order Quantification . . . . .	179
5.4.2	Expanding Substitutional Quantification . . . . .	183
5.4.3	Atomic Ontology . . . . .	190
<b>6</b>	<b>Theories of Meaning and Existence</b>	<b>198</b>
6.1	An Argument . . . . .	198
6.2	A Theory of Meaning . . . . .	200

6.2.1	An Example Theory of Meaning . . . . .	202
6.2.2	Criteria for a Theory of Meaning . . . . .	206
6.3	Adding Names . . . . .	210
6.4	Formal Theory . . . . .	213
6.5	Fully Positive, Negative, and Non-Denoting Terms . . . . .	217
6.6	Conclusions . . . . .	223
6.7	Cut Admissibility for Negative Free Logic . . . . .	225
6.7.1	Models . . . . .	225
6.7.2	Soundness . . . . .	227
6.7.3	Completeness . . . . .	234
6.7.4	Constructing a Tree . . . . .	236
6.7.5	Building a Model . . . . .	241
6.8	Failure of Cut Admissibility for a logic with AR and AL . . . . .	244
6.8.1	Model Theory . . . . .	244
<b>7</b>	<b>PHIL: A Logic for Contingentism</b>	<b>249</b>
7.1	Contingentism . . . . .	250
7.2	Motivation for PHIL . . . . .	252
7.3	Challenges to Contingentism . . . . .	260
7.3.1	Prior's Arguments . . . . .	260
7.3.2	Williamson's Challenge . . . . .	262
7.4	Important Results . . . . .	263
7.4.1	Interdefinability of Necessity and Possibility . . . . .	263
7.4.2	Uniqueness . . . . .	265

7.5	Models . . . . .	269
7.6	Soundness . . . . .	272
7.7	Completeness . . . . .	286
	7.7.1 Building a Tree . . . . .	287
	7.7.2 Building A Model . . . . .	291
7.8	Discussion . . . . .	304
	7.8.1 Existence . . . . .	304
	7.8.2 Truth and Being . . . . .	304