

Contents

Preface	VII
Acknowledgements	X
Introduction: Suppositiones terminorum in the twentieth century: Suppositio functionalis and functional being	1
1. <i>Semantic functions, science, and philosophy</i>	1
1.1 Semantic functions and theoretical science	1
1.2 Semantic functions and philosophy	3
1.3 "Generic" terms as functions of degrees of (rational) per- fection	5
1.4 Generic terms, communicative presupposition, and non- specificity	5
1.5 Derivation as an operation on the intensions of terms, and derived functions	7
1.6 Properties of semantic functions, and the contextual medie- val theory of the <i>suppositiones terminorum</i>	8
1.7 Comparison with Wittgenstein's <i>Tractatus</i>	10
1.8 Non-mathematicized intensions (non-mathematicized func- tions from "possible worlds")	10
2. <i>Semiotical relations and semiotical terminology to be used in this book</i> ...	14
2.1 Concepts and other things as possible "meanings" of expres- sions	14
2.2 A word's denotation/meaning in a given sentence (of a language)	14
2.3 Carnapian concepts in the narrower and in the wider sense	15
2.4 Are there concepts that are not functions?	16
2.5 The theory that expressions always denote concepts	16
2.6 Terminological recommendations	17
2.7 Summary (chart)	18
3. <i>Producer and Interpreter</i>	19
3.1 Producer and Interpreter – two fundamentally distinct se- mantic roles	19
3.2 Should the linguistic community be mentioned explicitly in our theory as a third instance?	22
4. <i>Some theorists – a very short and incomplete list</i>	23
5. <i>A survey of seven problems, solutions, and auxiliaries</i>	24

6. <i>A list of examples illustrating our seven official problems, in their order of introduction (from Ch. I onwards)</i>	27
--	----

Chapter I: Intentional intensions 29

1. <i>Recapitulation of problem, solution, auxiliary (in outline)</i>	29
2. <i>The Interpreter's distinction of "intension" and "extension" of linguistic expressions of ordinary English (solution)</i>	30
2.1 <i>A survey of suggested solutions to this problem</i>	30
2.2 <i>The Interpreter's intentional intensions</i>	33
2.3 <i>Immediate (direct, initial) and mediate (indirect, basic) denotations of terms</i>	34
3. <i>Auxiliary: A classification of "extensional" and "intensional" ordinary English verbs and verb phrases, for interpretational purposes</i>	36
3.1 <i>Definitions</i>	36
3.2 <i>Transitive verb phrases, doubly extensional (group A)</i>	37
3.3 <i>Transitive verb phrases, solely left-extensional (group B)</i>	38
3.4 <i>Intransitive verb phrases, extensional (group C)</i>	38
3.5 <i>Intransitive verb phrases, intensional (group D)</i>	39
3.6 <i>Transitive verb phrases, solely right-extensional (group E)</i>	40
3.7 <i>Transitive verb phrases, doubly intensional (group F)</i>	41
3.8 <i>Abbreviations</i>	41
3.9 <i>Intentional and referential uses of terms (supply-side semantics)</i>	41
4. <i>Preliminary survey (incomplete): Applications to the sentences illustrating the problem</i>	43

Chapter II: Functional sentence perspective and syntactically ambiguous sentences in ordinary English 44

1. <i>Recapitulation of Problem II, and a partial solution</i>	44
2. <i>Syntactic ambiguity and semantic ambiguity. Frege's principle</i>	48
3. <i>A very small fragment of role-invariant overt ordinary English. Its categories, lexicon, and the Grammarian's role-invariant syntactic rules (auxiliary)</i>	49
3.1 <i>Categories and classes of meaningful expressions</i>	49
3.2 <i>The lexicon of the expressions (overt phrases) of our fragment</i>	51
3.3 <i>Role-invariant syntactic rules for the juxtaposition of expressions</i>	52
3.4 <i>The quintessence of the auxiliary: (role-invariant) syntactic rules for substitution</i>	53

4. <i>Application of the role-invariant grammar to the examples illustrating the problem, with the addition of Producer's FSP</i>	55
4.1 Syntactic ambiguity: A sentence constructed in two ways, on the strength of this syntax	55
4.2 Functional sentence perspective and the Grammarian's syntax	58
4.3 An undesired consequence of our theory: Semantically unambiguous sentences which on the strength of our role-invariant syntax are ambiguous	58
4.4 A sentence that is an example of two problems	59
5. <i>Refinement of the survey in Ch. I, Section 4 (chart)</i>	60
6. <i>A note on practical logic and subject-predicate grammar</i>	60

Chapter III: A first theory of the Interpreter's representational apparatus: Enriched English (EE) and Begriffsschrift No. 2

1. <i>Recapitulation of Problem III, and a solution — the super-Fregean treatment of ordinary English quantifier phrases and proper names</i>	61
1.1 Some reasonable semantic principles, and Problem III	61
1.2 "Generic" men, "generic" pigs	62
1.3 Generic Man, generic Woman, and their generic State ...	64
1.4 Frege's solution — his treatment of the quantifiers, and abolishment of Principle Two	65
1.5 Montague's solution — the super-Fregean treatment of quantifiers in ordinary English	66
1.6 Comparison of theories	67
1.7 An ontological Philosopher's interpretation of the super-Fregean treatment of terms, and "Philosophers' English" (PE)	68
2. <i>Towards a systematic explanation of the solution to this problem</i>	69
2.1 Now we have three problems	69
2.2 Preliminary remarks on substitution. A sketch of Churchian functional abstracts and their uses	71
2.3 [A speculative aside on possible connections between functional sentence perspective and the production of proper names]	76
2.4 The Interpreter's representation of proper names	78
2.5 [A speculative interlude on the connection between functional sentence perspective and the production of OE quantifier phrases]	81
2.6 Possible production of OE quantifier phrases, and their interpretation	82
2.7 Possible production of OE pronouns, and their interpretation	83

2.8	Survey of hypotheses about the fundamental syntactic roles of representations of ordinary English expressions in the Interpreter's auxiliary language	84
3.	<i>Auxiliary III; A more precise formulation of an occult Interpreter's representational extension of our fragment of ordinary English (first theory)</i>	86
3.1	The occult lexicon of EE (Enriched English), categorized	86
3.2	Extensions and intensions of OE expressions	88
3.3	The syntactic rules of EE	88
4.	<i>Rules for the "translation" of OE expressions into EE, and their denotations</i>	90
4.1	Immediate (direct, initial) denotations of expressions. Survey (chart)	90
4.2	The general principle of OE-EE "translation"	91
4.3	Translation of basic OE common nouns and basic OE verb phrases	91
4.4	The translation of OE terms and pronouns	92
4.5	Translation of (the results of) the Grammarian's OE juxtaposition	93
4.6	Application to OE juxtapositional sentences with transitive verbs and object terms with determiners	94
4.7	Translation of the Grammarian's OE substitution results	94
4.8	Retrieving the likely referential meaning-in-use; or, development of initial EE representations into basic representations "by λ -conversion"	96
4.9	Development sometimes results in collapse of the A-B distinction and sometimes not	98
4.10	Object terms with existential import under a certain assumption about the Producer's FSP	100
4.11	Summing up — and some reflections on definite descriptions	102
5.	<i>Begriffsschrift No. 2</i>	103
Chapter IV: Relational-meaning postulates in Enriched English; or, link with Begriffsschrift No. 1		104
1.	<i>Problem IV and its solution (in outline)</i>	104
2.	<i>Individual-relational meaning postulates (IRMP's) concerning representations of ext-ext OE verb phrases</i>	106
3.	<i>Perspectivically limited individual-relational meaning postulates (IRMP's) concerning representations of ext-int OE verb phrases</i>	108
4.	<i>A variant with parametric individual-relators</i>	108
5.	<i>The logical temperature problem is now solved</i>	109
6.	<i>Direct and indirect denotations of OE terms. Linking up with medieval logic</i>	112

7. <i>Caveats; chart</i>	113
--------------------------------	-----

Chapter V: Improved theory of the Interpreter's representational language: Intensional English (IE) and Begriffsschrift No. 3

1. <i>An intermediary problem situation for the Theoretician</i>	115
2. <i>Solution</i>	117
2.1 <i>A new theory of the Interpreter's representational language</i>	117
2.2 <i>Explication of our semantic hypotheses in an improved theory of interpretational representation</i>	118
3. <i>Auxiliary: A systematic description of a "language" containing names for functions from possible worlds (outline)</i>	121
3.1 <i>Concerning the IE lexicon</i>	121
3.2 <i>Concerning the syntax of IE</i>	122
3.3 <i>Concerning the Theoretician's EE-IE translation</i>	122
3.4 <i>A theoretical choice — and two styles of the new theory</i>	122
3.5 <i>Comparison of Style 1 and Style 2 — assumptions and consequences</i>	123
3.6 <i>Concerning the Theoretician's EE-IE translation — a comparison of the two styles</i>	126
4. <i>Begriffsschrift No. 3</i>	126

Chapter VI: A systematic description of the Interpreter's reconstructions — Ajdukiewicz grammars and their uses

1. <i>Recapitulation of the problem, the solution and the auxiliary (in outline)</i>	128
2. <i>Defining syntactic categories by domain and range (auxiliary)</i>	130
2.1 <i>The EE categories</i>	130
2.2 <i>The categories of EE functional abstracts. Category mistakes and syntactic rules for EE</i>	132
2.3 <i>The OE-EE translation rules once more</i>	133
2.4 <i>The relational-meaning postulates of EE once more</i>	133
3. <i>Emergence of hidden variables in IE — Style 2</i>	134
3.1 <i>The Interpreter's completed functional abstraction. Reinterpretation of EE categories</i>	134
3.2 <i>The Interpreter's IE lexicon</i>	134
3.3 <i>The Interpreter's IE "syntactic" rules</i>	137
4. <i>EE-IE translation</i>	138
4.1 <i>The Theoretician's rules for exhibiting occult variables and their values</i>	138

4.2	Abbreviations (whereby possible-world symbols are eclipsed)	140
4.3	Translation of EE representations of terms — proper names, pronouns, and quantifier phrases; and a translational theorem	142
4.4	Application of the TEI-rules to some of our examples of EE sentence representation	143
4.5	Binary notation	144
5.	<i>Reminders, results, and important observations</i>	144
5.1	Ad OE	144
5.2	Concerning our first theory of the Interpreter's representational language (EE)	144
5.3	Concerning our second theory of the Interpreter's representational language (IE)	145
6.	<i>Reinterpretation of syntactic categories — comparison of Style 1 and Style 2</i>	145
7.	<i>Relational-meaning postulates. Reinterpretations and additions</i>	147
7.1	The Interpreter's IE phenomenal-relational meaning postulates concerning representations of doubly extensional OE transitive verbs	147
7.2	The Interpreter's individual-functional relational-meaning postulates (FRMP) concerning representations of OE transitive verbs. Functional identity and functional genidentity	149
7.3	The ext-ext transitive verb "be", and three representational notions of equality	151
7.4	Application to examples with "be" and determiner phrases	152
7.5	The Interpreter's phenomenal-subject meaning postulates concerning representations of ext-int transitive verbs	153
8.	<i>The Interpreter's phenomenal-characteristic meaning postulates concerning representations of extensional intransitive basic OE verbs</i>	154
9.	<i>The Interpreter's constant-value postulates concerning IE constants for individual-functions. Functional identity and functional genidentity (undefined)</i>	154
10.	<i>Application of the above to the premisses of the temperature problem</i>	157
11.	<i>Reinterpretation of the OE/EE sentence category d ("dialectical object", "declarative sentence")</i>	158

Chapter VII: Substantive common nouns and the reification of individual-functions 160

1.	<i>Recapitulation of Problem VII. Solution and auxiliary in outline</i>	160
2.	<i>Functional sentence perspective and the institutional-substantive ambiguity</i>	162

3. <i>Meaning-postulates concerning representations of substantive OE common nouns</i>	162
3.1 The problem in IE symbols	162
3.2 Substantive-meaning postulates concerning representations of substantive OE common nouns	163
Chapter VIII: Existence, negation and roles: Prolegomena to a pragmatic theory of denotation and existential import in "negative" sentences	167
1. <i>Introduction. A new problem, its solution (in outline) and an auxiliary</i>	167
2. <i>Preliminary observations concerning the communicative functions of negations in ordinary language</i>	171
2.1 Contradiction of statements and hypotheses: Exclusion negation	171
2.2 Signalling extra-logical discrepancies in the outer world: Discrepancy negation	172
2.3 Choice negation	174
2.4 Functional comparison of negative sentences and positive sentences	175
3. <i>Affirmation, negation and existence.</i>	176
3.1 An existential-meaning postulate concerning representations of extensional intransitive OE verb phrases	176
3.2 Existential-meaning postulates concerning representations of transitive OE verbs	178
4. <i>Does the introduction of an interpretational predicate of existence help us solve our problems?</i>	178
4.1 Exclusion negation and existence	178
4.2 Discrepancy negation and existence	179
4.3 Choice negation and existence	180
4.4 Conclusions	180
Epilogue	181
1. <i>On the philosophy and reality of semantic roles</i>	181
2. <i>A two-role semantical analysis of the Paradox of the Liar</i>	182
3. <i>Scientific arguments vs. levels of dialectical strictness</i>	184
4. <i>Explicitation of hidden variables in science</i>	184
5. <i>A philosophy of "generic" terms</i>	185
6. <i>On research into the language and foundations of the empirical sciences</i> ..	186

Bibliography	188
Index of Names	192
Index of Subjects	194