

CONTENTS

Foreword	11
List of abbreviations	13

PART 1. METHODOLOGICAL ISSUES

Chapter 1. Myths linguistics lives by

1.1. The axioms of orthodox linguistics	17
1.2. The written language bias	25
1.3. Representation and linguistic signs	28
1.4. Grammar	36
1.5. Meaning and communication	42
1.6. Summary	49

Chapter 2. Toward a realistic language science

2.1. Introduction	51
2.2. First generation cognitive science	53
2.3. Second generation cognitive science	56
2.4. Biology of cognition and language	61
2.4.1. An alternative to the computational model of cognition	60
2.4.2. Explaining the biology of language	64
2.4.3. Methodological implications	70
2.5. Semiotics and cognition	73
2.5.1. Semiotics as metascience	73
2.5.2. Biosemiotics	76
2.5.3. A biocultural theory of meaning	80
2.6. Distributed language and cognition	84
2.7. Summary	92

Chapter 3. Autopoiesis and linguistic analysis

3.1. A new epistemology	95
3.2. Representations and signs revisited	98
3.2.1. Representations	98
3.2.2. Phenomenology of signs	100
3.3. Interpretation as meaning-making	102
3.3.1. Sign and meaning, or what's amiss with the semantic triangle	102
3.3.2. Signs in physical context	110
3.3.3. Ontogenetic structural coupling as the basis for meaning-making ..	112
3.4. Intentionality and signification	115

3.4.1. The notion of intentionality	115
3.4.2. Communication	117
3.4.3. Reciprocal causality	119
3.5. Summary	122
 Chapter 4. Speech, writing, and cognition: whence the communicative dysfunction?	
4.1. The great mystification	125
4.2. Speech, thought, and writing: where rationalists go wrong	128
4.2.1. Introductory remarks	128
4.2.2. Language	129
4.2.3. Language and thought	138
4.2.4. Writing	142
4.3. The concept of literacy and the 'code' model of language	146
4.4. Speech and writing as cognitive domains	148
4.5. Types of linguistic interactions	153
4.6. The bio-socio-cognitive function of speech and writing	156
4.7. Summary	158
 PART 2. THE LANGUAGING OBSERVER	
 Chapter 5. Grammar and cognition	
5.1. Science and common sense	163
5.2. Approaching the concept of grammar	164
5.2.1. What does the term "grammar" refer to?.....	164
5.2.2. How systemic is grammar?	168
5.3. The purpose of grammar	176
5.3.1. The sign system of spoken language vs. the symbolic system of written language	176
5.3.2. The orientational function of natural language and its consequences for grammar	178
5.3.3. Grammar as knowledge structure	185
5.4. Summary	189
 Chapter 6. Aspect: where Russian and English meet	
6.1. Introductory remarks	193
6.2. Aspect in Russian	195
6.2.1. Boundedness and totality	195
6.2.2. The morphology of aspect	199
6.2.3. The grammatical paradigm of the Russian verb	206
6.3.4. The syntax of aspect	211

6.2.5. The meaning of aspect	217
6.3. Aspect and the participle	219
6.3.1. The morphology of participles and constraints on their use	219
6.3.2. The nature of the functional asymmetry of participles.....	223
6.4. Aspect in English	228
6.4.1. Divorcing tense from aspect	228
6.4.2. Aspect undisguised	233
6.4.3. Pedagogical implications	238
6.5. Summary	241
 Chapter 7. Interpreting linguistic structure: how we know who does what when	
7. 1. Complex sentence as a cognitive structure	243
7.1.1. Introduction	243
7.1.2. The data	245
7.1.3. The hypothesis and discussion	249
7.2. The cognitive distinction in infinitive/participle clausal arguments.....	254
7.2.1. The problem	254
7.2.2. What non-finite clausal arguments describe	257
7.2.3. Clausal arguments as structures for knowledge representation	260
7.3. Summary	264
 Chapter 8. Nominal gender: a case from Russian	
8.1. The problem with traditional semantic classification	267
8.2. Nouns vs. pronouns	270
8.2.1. The logic of naïve classification	270
8.2.2. Etymology	272
8.3. The hypothesis	273
8.4. Case study	276
8.5. Summary	280
 Bibliography	283