

Contents

Preface

ix

Chapter 1 **Toward a Model of Strategic Discourse Processing**

1.1. THE STUDY OF DISCOURSE	1
1.2. BASIC ASSUMPTIONS	4
1.3. AN OVERVIEW OF THE MODEL	10
1.4. CONCLUSIONS	19

Chapter 2 **Observations on the Status of Experimental Research on Discourse Comprehension**

2.1. PERCEPTUAL PROCESSES: LETTER AND WORD IDENTIFICATION	21
2.2. SYNTACTIC-SEMANTIC PARSING	27
2.3. AMBIGUITY	33
2.4. SEMANTIC UNITS: PROPOSITIONS	37
2.5. COHERENCE	43
2.6. KNOWLEDGE STRUCTURES	46
2.7. INFERENCES	49
2.8. MACROSTRUCTURES	52
2.9. SCHEMATIC SUPERSTRUCTURES	54
2.10. OUTLOOK	59

Chapter 3

The Notion of Strategy in Language and Discourse Understanding

3.1.	INTRODUCTION	61
3.2.	THE NOTION OF STRATEGY	62
3.3.	COGNITIVE STRATEGIES	68
3.4.	LANGUAGE STRATEGIES	70
3.5.	GRAMMATICAL STRATEGIES	73
3.6.	DISCOURSE STRATEGIES	78
3.7.	THE REPRESENTATION OF STRATEGIES	95
3.8.	A SAMPLE ANALYSIS: THE <i>NEWSWEEK</i> TEXT	98

Chapter 4

Propositional Strategies

4.1.	PROPOSITIONS	109
4.2.	COMPLEX PROPOSITIONS	119
4.3.	PROPOSITIONS AS COGNITIVE UNITS AND AS STRATEGIES	124
4.4.	A SAMPLE ANALYSIS OF THE <i>NEWSWEEK</i> TEXT	134
4.5.	EXPERIMENT 1: PROPOSITION FUSION	144

Chapter 5

Local Coherence Strategies

5.1.	LOCAL COHERENCE	149
5.2.	UNDERSTANDING SENTENCES	151
5.3.	LOCAL COHERENCE STRATEGIES	154
5.4.	TOPICALITY AND STRATEGIC PRONOUN UNDERSTANDING	160
5.5.	EXPERIMENT 2: PRONOUN IDENTIFICATION	172
5.6.	ANALYSIS OF THE <i>NEWSWEEK</i> TEXT	182

Chapter 6

Macrostrategies

6.1.	THE NOTION OF MACROSTRUCTURE	189
6.2.	MACROSTRUCTURES AND DISCOURSE UNDERSTANDING	191
6.3.	CONTEXTUAL MACROSTRATEGIES	196
6.4.	TEXTUAL MACROSTRATEGIES	201
6.5.	MACROSTRATEGIES IN ACTION: SOME EXAMPLES	206
6.6.	EXPERIMENT 3: INTEREST AND LEVEL OF DESCRIPTION AS MACROSTRUCTURE CUES	222
6.7.	EXPERIMENT 4: PRIMING MACROPROPOSITIONS	226

Chapter 7

Schematic Strategies

7.1.	SUPERSTRUCTURES	235
7.2.	SCHEMATIC STRATEGIES	237
7.3.	SCHEMATIC ANALYSIS OF THE <i>NEWSWEEK</i> TEXT	242

7.4. PREDICTIONS AND IMPLICATIONS OF THE THEORY OF SCHEMATIC SUPERSTRUCTURES	251
7.5. EXPERIMENT 5: THE ROLE OF RHETORICAL STRUCTURE IN DESCRIPTIVE TEXTS	253

Chapter 8
Production Strategies

8.1. PROBLEMS OF A PRODUCTION MODEL FOR DISCOURSE	261
8.2. INTERACTIVE AND PRAGMATIC PRODUCTION STRATEGIES	264
8.3. SEMANTIC PRODUCTION STRATEGIES	272
8.4. STRATEGIES FOR ESTABLISHING LOCAL COHERENCE	278
8.5. PROPOSITIONAL PRODUCTION STRATEGIES	280
8.6. SOME CONSEQUENCES FOR SENTENCE PRODUCTION STRATEGIES	283
8.7. SOME PRODUCTION STRATEGIES FOR THE <i>NEWSWEEK</i> TEXT	286
8.8. TOWARD A PROCESS MODEL OF DISCOURSE PRODUCTION	293

Chapter 9
Strategies for the Use of Knowledge

9.1. KNOWLEDGE SYSTEMS	304
9.2. KNOWLEDGE USE IN METAPHOR COMPREHENSION	312
9.3. REDINTEGRATION, REMINDING, AND PARTIAL MATCHES	315
9.4. STRATEGIES FOR KNOWLEDGE USE IN DISCOURSE	317
9.5. KNOWLEDGE USE IN THE <i>NEWSWEEK</i> TEXT	319
9.6. EXPERIMENT 6: GLOBAL BIASES IN KNOWLEDGE UTILIZATION	324
APPENDIX: TEXTS USED IN EXPERIMENT 6A	331

Chapter 10
The Cognitive Model

10.1. FROM THE TEXT REPRESENTATION TO THE SITUATION MODEL	336
10.2. A FRAMEWORK FOR A PROCESS MODEL	346
10.3. SHORT-TERM MEMORY USE IN DISCOURSE PROCESSING	352
10.4. RETRIEVAL FROM EPISODIC TEXT MEMORY	356
10.5. A PROCESSING MODEL FOR UNDERSTANDING AND SOLVING WORD ARITHMETIC PROBLEMS	364
10.6. EPILOGUE	383

References	387
------------	-----

Author Index	405
Subject Index	413