

# Contents

<b>Preface</b>	<b>ix</b>
<b>1 Introduction</b>	<b>1</b>
Psychology and Language	2
The Role of Human Information Processing	3
The Role of Linguistics	12
The Role of Computer Science	15
Reading versus Listening	17
Research Methods of Language Processes	19
Some Notes on Using this Book	23
Summary	24
<b>2 Language and Meaning: Representing and Remembering Discourse</b>	<b>27</b>
Levels of Representation	27
Sentence Form versus Meaning	29
Propositional Content of Sentences and Discourse	31
Psychological Reality of Propositions	37
Representation of the Form of Discourse	41
Representation of Situation Models	47
Summary	54

<b>3</b>	<b>Syntax and Parsing Processes</b>	<b>57</b>
	Syntax and Immediate Constituent Analysis	58
	Factors That Affect Parsing Processes	63
	Principles of Parsing	69
	Interaction of Syntax and Semantics: Interactive versus Modular Parsing	79
	Summary	87
<b>4</b>	<b>The Role of Knowledge in Language Comprehension</b>	<b>89</b>
	The Role of Knowledge during Encoding	92
	The Role of Knowledge during Retrieval	98
	Characteristics of Schemata	105
	Summary	110
<b>5</b>	<b>Understanding Coherent Discourse</b>	<b>113</b>
	Coherence and the Given-New Analysis	114
	Processing Given and New Information	118
	Coherence and the Identification of the Referents of Given Information	121
	Overcoming Impediments to Coherence	133
	Factors Influencing the Speed of Reading Coherent Text	140
	Summary	147
<b>6</b>	<b>Theme</b>	<b>149</b>
	Discourse Factors that Signal Theme	149
	Discourse Theme: Structure and Process	154
	Theme and Macrostructure	161
	Summary	165
<b>7</b>	<b>Inference Processes</b>	<b>167</b>
	When are Inferences Drawn?	171
	Message Characteristics that Guide Inference Processing	175
	Reader Characteristics that Guide Inference Processing	183
	Summary	188

<b>8</b>	<b>Understanding Stories</b>	<b>191</b>
	The Story Schema	192
	Schemata of Cause, Plans, and Goals	200
	Nonnarrative Discourse	202
	Understanding Script-Based Stories	204
	Coordinating Different Schemata	218
	Summary	219
<b>9</b>	<b>Question Answering and Sentence Verification</b>	<b>221</b>
	Stages of Question Answering	223
	Process Models of Sentence Verification and Question Answering	234
	Fact Retrieval and Question Answering	241
	Summary	246
<b>10</b>	<b>Natural Language Understanding by Computers—and People</b>	<b>249</b>
	The Role of Computer Models of Language Processes	253
	Computer Simulations of Language Processes	255
	Conclusions	268
	Summary	269
	<b>References</b>	<b>271</b>
	<b>Author Index</b>	<b>291</b>
	<b>Subject Index</b>	<b>299</b>
	<b>Acknowledgments and Copyrights</b>	<b>305</b>