

Contents

Preface	ix
Dedication	xiii
A Letter to James J. Jenkins	xv
Photograph of J. J. Jenkins	xvii

I. PERSPECTIVES

1. Introduction	3
<i>Robert R. Hoffman and David S. Palermo</i>	
2. Retrospections on the Study of Memory and Cognition	7
<i>David L. Horton</i>	
3. Direct Perception and Other Forms of Knowing	17
<i>Ulric Neisser</i>	

II. SPEECH PERCEPTION

4. Modularity and the Effects of Experience	33
<i>Alvin M. Liberman and Ignatius G. Mattingly</i>	
5. A Note on Linguistic Nativism	39
<i>Michael Studdert-Kennedy</i>	

6. Auditory Enhancement in Speech Perception and Phonology 59
Randy L. Diehl, Keith R. Kluender, Margaret A. Walsh, and Ellen M. Parker

III. LANGUAGE COMPREHENSION

7. Holistic Models of Word Recognition 79
Neal F. Johnson
8. Syntactic Modularity in Sentence Comprehension 95
Charles Clifton, Jr.
9. Global and Local Context Effects in Sentence Processing 115
Donald J. Foss and Shari R. Speer
10. The Complexity of Reading 141
Philip B. Gough

IV. COGNITION AND MOTIVATION

11. Cognition, Motivation, and Emotion: Ideology Revisited 153
William N. Dember
12. Metaphor and Context in the Language of Emotion 163
Robert R. Hoffman, John E. Waggoner and David S. Palermo
13. Fog Cat Fog 187
Háj Ross

V. THE DEVELOPMENT OF KNOWLEDGE AND PROBLEM-SOLVING SKILLS

14. Children's Theories vs. Scientific Theories: Differences in Reasoning or Differences in Knowledge? 209
William F. Brewer and Ala Samarapungavan

15. Cognitive Physics and Event Perception: Two Approaches to the Assessment of People's Knowledge of Physics 233
John B. Pittenger
16. Mathematical Cognition: Accomplishments and Challenges in Research 255
James G. Greeno
17. Understanding Memory Access 281
Jeffery Franks, John Bransford, Kevin Brailey and Scot Purdon

VI. PEDAGOGY

18. The Aesthetic Basis of Pedagogy 303
David Premack
19. Pragmatic Skills and the Acquisition of Linguistic Competence 327
Judith A. Becker
20. Educating for Applications: Possibilities and Paradoxes 335
James J. Jenkins

VII. PERCEPTION AND MOTOR SKILLS

21. Light and Mind: Understanding the Structure of Film 351
Robert N. Kraft
22. Ecological Units of Analysis and Baseball's "Illusions" 371
Claudia Carello and M. T. Turvey
23. The Role of Attractors in the Self-organization of Intentional Systems 387
Peter N. Kugler, Robert E. Shaw, Kim J. Vicente and Jeffrey Kinsella-Shaw
24. Perception and Representation in the Development of Mobility 433
Herbert L. Pick, Jr. and Karl S. Rosengren

VIII. APPLICATIONS OF COGNITIVE PSYCHOLOGY

25. An Eventful Approach to Studying Mental Retardation 457
Penelope H. Brooks and James Van Haneghan
26. An Ecological Framework for Ergonomic Research and Design 477
Leonard S. Mark, Marvin J. Dainoff, Robert Moritz, and David Vogeles
27. Methodological Problems in Applied Cognition and Perception Research: Theoretical Implications 507
Rik Warren

Author Index 519
Subject Index 537