

Contents

I Motor Control and Action Planning

- 1 Cognitivism and Future Theories of Action: Some Basic Issues
G.E. Stelmach and B.G. Hughes 3
- 2 A Distributed Processing View of Human Motor Control
R.W. Pew 19
- 3 The Apraxias, Purposeful Motor Behavior,
and Left-Hemisphere Function
R.B. Freeman, Jr. With 1 Figure 29
- 4 A Motor-Program Editor
D.A. Rosenbaum and E. Saltzman. With 1 Figure 51
- 5 Eye Movement Control During Reading:
The Effect of Word Units
G.W. McConkie and D. Zola. With 6 Figures 63

II Motor Contributions to Perception and Cognition

- 6 Motor Theories of Cognitive Structure: A Historical Review
E. Scheerer 77
- 7 Context Effects and Efferent Factors in Perception
and Cognition
W.L. Shebilske. With 2 Figures 99
- 8 Saccadic Eye Movements and Visual Stability: Preliminary
Considerations Towards a Cognitive Approach
P. Wolff 121
- 9 Scanning and the Distribution of Attention: The Current
Status of Heron's Sensory-Motor Theory
D.J.K. Mewhort 139
- 10 The Relationship Between Motor Processes and Cognition
in Tactile Vision Substitution
P. Bach-y-Rita 149

III Mediating Structures and Operations Between Cognition and Action

11	Mechanisms of Voluntary Movement H.H. Kornhuber	163
12	Evaluation: The Missing Link Between Cognition and Action D.M. MacKay. With 3 Figures	175
13	Modes of Linkage Between Perception and Action W. Prinz. With 3 Figures	185
14	The Contribution of Vision-Based Imagery to the Acquisition and Operation of a Transcription Skill D. Gopher. With 4 Figures.	195
15	Speech Production and Comprehension: One Lexicon or Two? D.A. Allport. With 2 Figures	209

IV Attention, Cognition, and Skilled Performance

16	S-Oh-R: Oh Stages! Oh Resources! D. Gopher and A.F. Sanders. With 2 Figures	231
17	Automatic Processing: A Review of Recent Findings and a Plea for an Old Theory O. Neumann	255
18	Motor Learning as a Process of Structural Constriction and Displacement H. Heuer. With 6 Figures.	295

V Interactions Between Cognition and Action in Development

19	Cognition and Action in Development: A Tutorial Discussion H.L. Pick	309
20	Biodynamic Structures, Cognitive Correlates of Motive Sets and the Development of Motives in Infants C. Trevarthen	327
21	Discontinuity in the Development of Motor Control in Children L. Hay. With 4 Figures	351

Author Index	361
------------------------	-----

Subject Index	375
-------------------------	-----