## **CONTENTS**

## Contributors

1.	New Wine in Old Bottles: "Repurposed" Methodologies for	
	Studying Expertise in Physics	1
	José P. Mestre and Jason W. Morphew	
	1. Introduction	2
	2. Expertise in Physics	3
	3. New Approaches for Exploring Expertise in Physics	6
	4. Conclusion	31
	References	32
2.	The Interaction Between Knowledge, Strategies,	
	Metacognition, and Motivation	35
	Mitchell Rabinowitz	
	1. Introduction	35
	2. Independent Knowledge Base Effects?	37
	3. The Knowledge Base and Strategy Selection	44
	4. Knowledge Accessibility and General-Context Strategies	46
	5. Strategies, Knowledge, Metacognition and Motivation	48
	6. Discussion	50
	References	51
3.	Understanding Sound: Auditory Skill Acquisition	53
	Shannon L.M. Heald, Stephen C. Van Hedger and Howard C. Nusbaum	
	1. Introduction	54
	2. Acoustic Challenges to Perception	57
	3. Category Knowledge *	59
	4. Perceptual Learning	61
	5. Generalization and Transfer	72
	6. Context and Cognition	78
	7. Conclusions	82
	Acknowledgment	84
	References	84

4.	Causal Knowledge and Reasoning in Decision Making	95
	York Hagmayer and Cilia Witteman	6
	1. Introduction	96
	<ol> <li>Causal Knowledge and Reasoning in Decision Making</li> <li>Integrating Causal Knowledge and Reasoning Into Decision</li> </ol>	98
	Making—the Causal-Explanation-Based Decision-Making Framework	116
	4. Conclusions	125
	References	128
5.	Domain-Specific Versus Domain-General Maintenance in Working Memory: Reconciliation Within the Time-Based Resource Sharing Model	135
	Valérie Camos	
	1. Introduction	136
	2. What is Working Memory?	137
	3. Are There Domain-Specific Maintenance Mechanisms?	142
	4. Attentional Refreshing: A Domain-General Maintenance Mechanism	146
	5. Maintenance of Verbal Information in the Time-Based Resource	
	Sharing Model	154
	6. Conclusions	165
	Acknowledgments	166
	References	166
6.	A Framework of Episodic Updating: An Account of	
	Memory Updating After Retrieval	173
	Bridgid Finn	
3	1. Introduction	174
:	2. The Role of Retrieval in Memory Updating	175
:	3. Phases of Episodic Retrieval	188
4	<ol> <li>A Newly Proposed Framework of Episodic Updating</li> </ol>	196
5	5. Summary	202
6	6. Practical Implications	202
A	cknowledgments	203
	references	203

7.	Is Prospective Memory Unique? A Comparison of Prospective and Retrospective Memory	213
		213
	Dawn M. McBride and Rachel A. Workman	
	1. Introduction—What Is Prospective Memory?	213
	2. Perspectives on Prospective Memory	216
	3. Forgetting in Prospective Memory	221
	4. Aging Effects	226
	5. Mood Effects	230
	6. Conclusion—Is Prospective Memory Unique?	233
	References	233
8.	Context as an Organizing Principle of the Lexicon	239
	Michael N. Jones, Melody Dye and Brendan T. Johns	
	1. Introduction	240
	Word Frequency and Contextual Diversity	245
	3. Frequency and Diversity in Linguistic Contexts	255
	4. The Role of Semantic Diversity	260
	5. Insights From Distributional Models	267
	6. Conclusions	274
	Acknowledgments	275
	References	275
	Further Reading	283
9.	Edge-Aligned Embedded Word Activation Initiates	
9.	Morpho-orthographic Segmentation	285
	Jonathan Grainger and Elisabeth Beyersmann	203
	·•	206
	Introduction     A New Approach to Morpho orthographic Sognoptetion	286
	A New Approach to Morpho-orthographic Segmentation     Modulation of Edga Aligned Embedded Word Activation	289
	Modulation of Edge-Aligned Embedded Word Activation     Time Course of Stam and Affix Processing	295
	4. Time-Course of Stem and Affix Processing	299
	5. A Developmental Perspective on Embedded Word Activation	302
	<ul><li>6. Outstanding Questions</li><li>7. Conclusions</li></ul>	309
	Acknowledgments	311 312
	References	212