

Contents

Series Preface	vii
Preface	ix
Contributors	xvii

Part I Memory Factors

Chapter 1 Implicit and Explicit Assessment of Cognitive Aging	3
<i>Darlene V. Howard</i>	
Implicit Versus Explicit Memory	4
Previous Research on the Aging of Implicit Memory	8
Our Studies of the Aging of Implicit Memory	12
Summary of the Aging of Implicit Memory	29
Implications for Cognitive Aging	31
References	33
Chapter 2 Measuring Memory Development in Adulthood: A Model-Based Approach to Disentangling Storage- Retrieval Contributions	39
<i>Mark L. Howe</i>	
On the Measurement of Storage and Retrieval Processes	40
Overview of the Two-Stage Model of Memory	43

	Current Research	47
	General Discussion	56
	Relative Contributions of Storage and Retrieval to Memory Development in Adulthood	57
	General Implications and Conclusions	58
	References	61
Chapter 3	Memory Self-Knowledge and Self-Efficacy in the Aged ...	65
	<i>David F. Hultsch, Christopher Hertzog, Roger A. Dixon, and Heather Davidson</i>	
	The Definition and Measurement of Metamemory ...	66
	Age and Sex Differences in Metamemory	80
	Metamemory/Memory Relationships	85
	Summary and Conclusions	88
	References	89
Chapter 4	Memory for Activities: Rehearsal-Independence and Aging	93
	<i>Donald H. Kausler and Wemara Lichty</i>	
	Basic Concepts and Issues	94
	Memory for Content	97
	Memory for Noncontent Attributes	108
	Action Memory	116
	Conceptualization of Activity/Action Memory	122
	Summary	127
	References	128
Chapter 5	Memory for Prose and Aging: A Meta-Analysis	133
	<i>Elizabeth M. Zelinski and Michael J. Gilewski</i>	
	Introduction	133
	Predictors of Effect Sizes in Memory for Prose and Aging	135
	Predictions of Models of Memory and Aging for Subject and Text Variables	141
	Methodology	143
	Results	148
	Discussion	150
	Conclusions	154
	References	154

Part II Cognitive and Performance Factors

Chapter 6	Analysis and Synthesis in Problem Solving and Aging . . .	161
	<i>David Arenberg</i>	
	Analysis and Aging	162
	Synthesis and Aging	166
	Logical Problem Solving: Cross-Sectional Studies	168
	Logical Problem Solving: Longitudinal Studies	171
	The New Study	172
	References	182
Chapter 7	The Role of Processing Resources in Cognitive Aging	185
	<i>Timothy A. Salthouse</i>	
	Restriction of Scope	185
	Documenting the Decline	186
	How Are Age Differences to Be Explained?	188
	Review of Resource Interpretations of Cognitive Aging	191
	Investigating Processing Resources	193
	What Is the Nature of the Processing Resource?	200
	Study 1	204
	Study 2	208
	Study 3	218
	General Discussion	226
	Reappraisal of the Resources Construct	229
	New Approaches to Identifying Age-Related Processing Resources	231
	Conclusion	235
	References	236
Chapter 8	Internal Validity Threats in Studies of Adult Cognitive Development	241
	<i>K. Warner Schaie</i>	
	Introduction	241
	Threats to the Internal Validity of Developmental Studies	242
	The Longitudinal-Sequential Approach As a Method for the Control or Assessment of Internal Validity Threats	247
	Empirical Data on the Significance of Internal Validity Threats for Data on Adult Cognitive Development	251

Some Concluding Remarks	269
References	270
Chapter 9 Physical Activity, Age, and Cognitive/Motor Performance	273
<i>Michael J. Stones and Albert Kozma</i>	
Introduction	273
Measurement and Methodology	277
Theoretical Perspectives	282
The FAPA Study and Construct Validation of a Functional Age Index	289
Research Findings: Intervention Effects	292
Research Findings: Undifferentiated Cross-Sectional Age Trends	299
Research Findings: Differentiated Age Trends	300
Study 1	303
Study 2	311
General Discussion of Studies 1 and 2	313
Conclusions	314
References	316
Author Index	323
Subject Index	331