

Contents

<i>Preface</i>	page ix
<i>Contributors</i>	xi
PART I. THE NATURE OF INTELLIGENCE AND ITS MEASUREMENT	
1 The Concept of Intelligence	3
ROBERT J. STERNBERG	
2 History of Theories and Measurements of Intelligence	16
NATHAN BRODY	
3 Contemporary Models of Intelligence	34
JANET E. DAVIDSON AND C. L. DOWNING	
PART II. DEVELOPMENT OF INTELLIGENCE	
4 Heritability and Intelligence	53
ELENA L. GRIGORENKO	
5 Intellectual Development in Childhood	92
ZHE CHEN AND ROBERT S. SIEGLER	
6 Intellectual Development in Adulthood	117
CYNTHIA A. BERG	
PART III. GROUP ANALYSES OF INTELLIGENCE	
7 Intelligence and Mental Retardation	141
DOUGLAS K. DETTERMAN, LYNNE T. GABRIEL, AND JOANNE M. RUTHSATZ	
8 Intelligence and Giftedness	159
CAROLYN M. CALLAHAN	
9 Group Differences in Intelligence	176
JOHN C. LOEHLIN	
PART IV. BIOLOGY OF INTELLIGENCE	
10 Animal Intelligence	197
THOMAS R. ZENTALL	
11 The Evolution of Intelligence	216
HARRY J. JERISON	

12	The Neuropsychology and Psychophysiology of Human Intelligence	245
	PHILIP A. VERNON, JOHN C. WICKETT, P. GORDON BAZANA, AND ROBERT M. STELMACK	
PART V. INTELLIGENCE AND INFORMATION PROCESSING		
13	Simple Information Processing and Intelligence	267
	IAN J. DEARY	
14	Complex Information Processing and Intelligence	285
	DAVID F. LOHMAN	
15	Artificial Intelligence	341
	ROGER C. SCHANK AND BRENDON TOWLE	
PART VI. KINDS OF INTELLIGENCE		
16	Social Intelligence	359
	JOHN F. KIHLMSTROM AND NANCY CANTOR	
17	Practical Intelligence	380
	RICHARD K. WAGNER	
18	Models of Emotional Intelligence	396
	JOHN D. MAYER, PETER SALOVEY, AND DAVID CARUSO	
PART VII. TESTING AND TEACHING INTELLIGENCE		
19	Psychometric Approaches to Understanding and Measuring Intelligence	423
	SUSAN E. EMBRETSON AND KAREN M. SCHMIDT MCCOLLAM	
20	Tests of Intelligence	445
	ALAN S. KAUFMAN	
21	Interpretation of Intelligence Test Scores	477
	MARK H. DANIEL	
22	Teaching Intelligence: A Performance Conception	492
	TINA A. GROTZER AND DAVID N. PERKINS	
PART VIII. INTELLIGENCE, SOCIETY, AND CULTURE		
23	Intelligence and Education	519
	RICHARD E. MAYER	
24	Intelligence and Public Policy	534
	CRAIG T. RAMEY AND SHARON LANDESMAN RAMEY	
25	Intelligence and Culture	549
	ROBERT SERPELL	
PART IX. INTELLIGENCE IN RELATION TO ALLIED CONSTRUCTS		
26	Intelligence and Personality	581
	MOSHE ZEIDNER AND GERALD MATTHEWS	
27	Intelligence and Creativity	611
	ROBERT J. STERNBERG AND LINDA A. O'HARA	
28	Intelligence and Wisdom	631
	ROBERT J. STERNBERG	
	<i>Author Index</i>	651
	<i>Subject Index</i>	671