

# Contents

<b>Contributors</b> .....	ix
<b>Preface</b> .....	xi

## **1. Cognitive Skill Maps and Cognitive Skill Profiles: Componential Analysis of Individual Differences in Children's Reading Efficiency**

*Thomas H. Carr, Tracy L. Brown, Linda G. Vavrus, and*

<i>Mary Ann Evans</i> .....	1
Component Skills Analysis .....	2
The Present Work: Focus on Individual Differences .....	3
The Reading System: A Component Model .....	7
Constructing a Test Battery .....	11
Method: Subjects and Testing Procedures .....	12
Results: Cognitive Skill Maps .....	26
Results: Cognitive Skill Profiles .....	32
Using the Effects of Instruction as Converging Evidence .....	43
Summary .....	46
References .....	48

## **2. Developmental Predictors of Children's Reading Comprehension**

<i>David A. Saarnio, Evelyn R. Oka, and Scott G. Paris</i> .....	57
Multifactor Approaches to Reading.....	58
Research on Predictors of Children's Reading Comprehension .....	60
Discussion.....	73
Conclusions and Implications .....	74
References .....	76

## **3. Individual and Developmental Differences in the Acquisition of Reading Skills**

<i>Betty Ann Levy and Janet Hinchley</i> .....	81
Issues and Choices .....	82
Project Report .....	88
Organization of Skills .....	114
Summary and Discussion .....	125
References.....	127

## **4. Cognitive Variation in Adult College Students Differing in Reading Ability**

<i>Anne E. Cunningham, Keith E. Stanovich, and Mark R. Wilson</i> .....	129
Method .....	133
Results.....	139
General Discussion.....	152
References.....	156

## **5. An Analysis of the Component Spelling and Reading Skills of Good Readers—Good Spellers, Good Readers—Poor Spellers, and Poor Readers—Poor Spellers**

<i>Maggie Bruck and Gloria S. Waters</i> .....	161
Introduction .....	161
Design .....	170
Component Spelling Skills .....	171
Spelling Tasks: Summary and Conclusions .....	179

Word Recognition and Decoding Skills .....	181
Reading Comprehension Skills .....	183
Higher Level Component Reading Skills and Compensatory Mechanisms .....	189
Reading Tasks: Summary and Conclusions .....	196
Relationship between Reading and Spelling Skills: Summary and Conclusions .....	200
References .....	201

## **6. Variation in Component Word Recognition and Spelling Skills among Dyslexic Children and Normal Readers**

<i>Franklin R. Manis, Patricia A. Szeszulski, Liana K. Holt, and Kathryn Graves</i> .....	207
A Component Skills Analysis of Word Recognition .....	209
Previous Studies of Word Recognition in Dyslexic Children .....	213
Sample Selection and Description .....	219
Group Differences in Phonological Decoding .....	222
Group Differences in Orthographic Skill .....	225
Group Differences in Word Naming Accuracy and Latency .....	229
Individual Differences in Component Skills .....	234
Conclusions .....	253
References .....	255

## **7. Organization, Heritability, and Remediation of Component Word Recognition and Language Skills in Disabled Readers**

<i>Richard Olson, Barbara Wise, Frances Connors, and John Rack</i> .....	261
A Component Skills Analysis of Reading Disability .....	263
The Genetic-Environmental Etiology of Deficits in Component Word Recognition and Language Skills .....	288
Remediation of Deficits in Word Recognition .....	303
References .....	316

**8. Reading Acquisition in Congenitally Deaf Children Who Communicate Orally: Insights from an Analysis of Component Reading, Language, and Memory Skills**

*Gloria S. Waters and Donald G. Doehring* .....323  
Introduction .....323  
Possible Causes of the Reading Difficulties of the Deaf .....325  
The Present Study .....336  
References .....368

**9. Writing System Background and Second Language Reading: A Component Skills Analysis of English Reading by Native Speaker—Readers of Chinese**

*Margot Haynes and Thomas H. Carr* .....375  
Knowledge of Writing Systems .....377  
Rationale and Approach of the Study .....386  
Design of the Study .....389  
Results .....399  
Conclusions .....414  
References .....416

**10. Component Process Analyses: Conclusions and Challenges**

*Betty Ann Levy and Thomas H. Carr* .....423  
Contributions to Reading Ability .....424  
Theoretical Contributions and Challenging Problems .....432  
References .....437

**Index**.....439