

Contents

- **xi** Preface
- 1 Chapter 1: Introduction to Processing Disorders
 - **1** Background Information
 - **3** A Processing Task
 - **6** A Definition of *Processing*
 - **7** Bottom-Up Versus Top-Down Processing Models
 - **7** Bottom-Up Processing Model
 - **7** Top-Down Processing Model
 - 10 The Neurology of Processing and Learning
 - **10** The Processing Continuum
 - **11** Processing Terminology
 - **12** Summary Comments
- 13 Chapter 2: The Central Auditory Processing Model
 - 13 Anatomy and Physiology of the Auditory System
 - **16** Neurological Maturation of the Auditory System
 - 17 Philosophy of Central Auditory Processing
 - 20 Central Auditory Nervous System Outline
 - 21 Quick Quiz Questions
- 23 Chapter 3: The Language Processing Model
 - 24 Anatomy and Physiology of the Language System
 - 27 Neurological Maturation of the Language Processing System
 - **29** Philosophy of Language Processing
 - 30 Clinical Model of a Processing Continuum
 - **32** Functional Units Outline: Anatomy and Physiology of the Language Processing System
 - 33 Quick Quiz Questions

35 Chapter 4: Behavior Characteristics in Processing Disorders

- **35** Student Examples of Processing Disorders
- 40 Central Auditory Processing Problems
- 44 Language Processing Problems
- 47 Preschool Precursory Behavioral Profile for Processing Problems
- 51 Behavior Checklists

55 Chapter 5: Processing Assessment

- 56 Central Auditory Processing Assessment
 - **56** Purpose of Central Auditory Processing Assessment
 - **56** Prerequisites for CAP Assessment
 - **57** Types of Audiological CAP Assessment Procedures
 - **59** CAP Assessment Cautions
 - **60** CAP Assessment Battery
 - **61** CAP Assessment Challenges
- **62** Functional Auditory Skills Assessment
 - **63** Purpose of Functional Auditory Skills Assessment
 - **64** Prerequisites for Functional Auditory Skills Assessment
 - **64** Types of Functional Auditory Skills
 - **65** Functional Auditory Skills Assessment Cautions
 - **65** Sample Tests to Evaluate Functional Auditory Skills
- 68 Language Processing Assessment
 - **68** Sample Language Processing Hierarchy
 - **69** Purpose of Language Processing Assessment
 - **70** Prerequisites for Language Processing Assessment
 - **70** Types of Language Processing Assessment Procedures
 - 71 Language Processing Assessment Cautions
 - 72 Language Processing Skills Assessment
 - 74 Adjunct Areas of Language Processing Assessment
 - 75 Language Processing Assessment Battery
 - **76** Language Processing Assessment Summary Comments
- 77 Case Examples of Processing Assessment
- **95** Summary Charts of Case Interpretations

97 Chapter 6: Remediation for Auditory Processing Disorde

- Compensatory Strategies for CAPD
 - Teacher Modification Strategies for CAPD
 - Student Modification Strategies for CAPD 100
- 102 Specific Skill Remediation for CAPD
 - Acoustic-Feature Skill Intervention
 - 106 Phonemic Functional Auditory Skill Intervention
 - 114 **Applied Auditory Skills**
- 114 Efficacy Research on CAPD Treatment Programs
- 115 **Summary Comments**

117 Chapter 7: Remediation for Language Processing Disorders

- Compensatory Strategies for Language Processing Disorders 119
 - 120 Memory
 - 121 Word Retrieval
 - 125 Teacher Compensatory Strategies for Language Processing Disorders
 - Student Compensatory Strategies for Language Processing Disorders 127
- Specific Skills Intervention for Language Processing Disorders 129
 - Discrete Language Processing Hierarchy
 - 133 **Executive Functions**
 - Applied Language Processing Skills
- 135 **Guidelines for Language Processing Therapy**
- **Summary Comments** 137

Chapter 8: Summary Thoughts and Suggestions 139

- Relationship Between Central Auditory Processing Disorders and Language Processing Disorders
- Additional Intervention Ideas 140
 - 140 Bloom's Taxonomy
 - 142 Multiple Intelligences
 - 146 Games
- Sample Diagnostic Report
- **155** Conclusion
- **157** Answer Key
- 159 References