

Contents

xiii	Preface
xv	Introduction
1	Chapter 1: Defining Executive Functions
1	Overview
2	Defining Executive Functions
3	Components of Executive Functions
5	Attention, Inhibition, and Working Memory: Foundational Processes
6	Components of Executive Functions: Beyond Foundational Skills
9	Language and Executive Functions
9	Problems in Executive Functions
12	Anatomy of Executive Functions
16	Neural Networks of Executive Functions
20	Summary
23	Chapter 2: Development of Executive Functions
23	Overview
24	Frontal Lobe Development
25	Executive Function Development
31	Cognitive Development
32	Piaget's Developmental Stages
34	Emotional Development
35	Development of Inner Speech
36	Summary
39	Chapter 3: Comorbidity of Executive Dysfunction With Other Disorders
39	Overview
39	Rethinking What We Know About Our Caseload
40	Executive Dysfunction in Developmental and Acquired Disorders
42	"Profiles" of Executive Dysfunction
42	Executive Dysfunction Profiles Associated With Childhood Disorders
42	EDF and Attention-Deficit/Hyperactivity Disorder (ADHD)
44	EDF and Autism Spectrum Disorders (ASDs)
47	EDF and Language Disorders
50	EDF and Developmental Syndromes
53	EDF and Specific Learning Disabilities (SLDs)
54	EDF and Traumatic Brain Injury (TBI)
55	EDF and Adverse Childhood Experiences
56	Summary

59 Chapter 4: Assessment of Executive Functions

- 59 Overview
- 60 Identifying and Diagnosing Executive Dysfunction
 - 60 Defining *Executive Dysfunction* (EDF)
- 62 Executive Function Assessment Principles
 - 62 Evaluate Primary Communication Disorders First—and Push the Limits
 - 66 Evaluate Executive Functions Next: Here's How
- 79 Diagnosing EDF and Determining the EF Profile
 - 80 Analyzing the EF Profile
- 82 Standardized Assessment Case Studies
 - 97 Are EF Evaluations Always So Complicated?
- 98 Summary
- 101 Appendix 4.1. Sample EF Interview Questions for the Parent or Caregiver
- 102 Appendix 4.2. Sample EF Interview Questions for the Teacher
- 103 Appendix 4.3. Sample EF Interview Questions for the Child
- 104 Appendix 4.4. Summary Checklist of Observed EF Deficits
- 106 Appendix 4.5. Functional Task Protocol for Informal Assessment of EFs
- 108 Appendix 4.6. Observational Worksheet for Informal Assessment of EFs

111 Chapter 5: Education, Advocacy, and Environmental Engineering

- 111 Overview
- 113 Educating Others About the Child's Executive Dysfunction
- 115 Advocating for the Child With Executive Dysfunction
- 116 Environmental Engineering to Promote Best Use of Executive Functions
 - 119 How Much Help Is Too Much?
 - 119 Environmental Engineering for Attention and Organization
 - 121 Environmental Engineering for Impulsivity
- 122 A Word About Expectations
- 124 Summary

125 Chapter 6: Developing Accurate Awareness and Self-Appraisal

- 125 Overview
- 126 Developing Awareness and Insight
 - 127 Levels of Awareness
- 128 Building Intellectual Awareness
 - 128 Therapeutic Failure
 - 129 Performance Analysis: Post-Task Autopsy
 - 130 Performance Analysis: Freeze the Moment
 - 131 Performance Analysis: Predicted Versus Actual Performance
- 133 Tracking Data and Refining Awareness
 - 134 Self-Monitoring and Self-Correction
 - 134 Sample Goals for Developing Awareness
- 135 Summary

137	Chapter 7: Compensatory Strategies for Executive Dysfunction
137	Overview
138	Teaching Compensatory Strategies
140	Developing Relevant Strategies
141	Language for Self-Talk Strategies
143	Compensatory Strategies for EF Deficits: Things to Say and Things to Do
143	Compensatory Strategies for Attention and Working Memory Deficits
144	Compensatory Strategies for Impulsivity
146	Compensatory Strategies for Initiation Deficits
147	Compensatory Strategies for Shifting Deficits
148	Compensatory Strategies for Planning Deficits
151	Summary
153	Chapter 8: The Role of Language and Executive Function Therapy
153	Overview
155	Language Foundations for Executive Functions
156	The Complexity of Language Needed for EFs
157	Language for Reasoning, Planning, and Problem Solving
158	Considerations for EF-Related Language Therapy
161	Problem Solving as EF Therapy
162	Who Should Receive Problem-Solving EF Therapy?
163	What Is Problem-Solving EF Therapy?
163	Ten Rules for Problem-Solving EF Therapy
166	Cueing Hierarchy for Problem-Solving EF Therapy
167	Developing Tasks for Problem-Solving EF Therapy
169	Writing Goals for Problem-Solving EF Therapy
170	Developing a Comprehensive Intervention Plan
172	Profile Snapshot: Attention and Working-Memory Deficits
173	Profile Snapshot: Goal Determination and Awareness Deficits
174	Profile Snapshot: Impulsivity
175	Profile Snapshot: Planning and Reasoning Deficits
176	Profile Snapshot: Organization Deficits
177	Profile Snapshot: Initiation Deficits
177	Profile Snapshot: Flexibility and Shifting Deficits
178	Summary
181	Chapter 9: Concluding Thoughts and Looking to the Future
181	Overview
185	References