

Contents

CHAPTER 1.	Introduction: Current Approaches to Rehabilitation	1
	Sarah A. Raskin	
 PART I. REORGANIZATION IN THE CENTRAL NERVOUS SYSTEM		
CHAPTER 2.	Neuronal Organization and Change after Brain Injury	13
	Bryan Kolb, Jan Cioe, and Preston Williams	
CHAPTER 3.	Experience-Dependent Changes in Nonhumans	38
	Theresa A. Jones	
CHAPTER 4.	Motor and Sensory Reorganization in Primates	65
	Randolph J. Nudo and Scott Bury	
CHAPTER 5.	Cognitive Reserve	89
	Yaakov Stern	

CHAPTER 6.	Practice-Related Changes in Brain Activity	103
	Sarah A. Raskin, Ginger N. Mills, and Julianne T. Garbarino	

PART II. INTERVENTIONS FOR MOTOR AND COGNITIVE DEFICITS

CHAPTER 7.	Activity-Based Interventions for Neurorehabilitation	117
	David M. Morris and C. Scott Bickel	
CHAPTER 8.	Malleability and Plasticity in the Neural Systems for Reading and Dyslexia	149
	Bennett A. Shaywitz and Sally E. Shaywitz	
CHAPTER 9.	Neuroplasticity and Rehabilitation of Attention in Children	172
	Jennifer A. Engle and Kimberly A. Kerns	
CHAPTER 10.	Language Therapy	209
	Susan A. Leon, Lynn M. Maher, and Leslie J. Gonzalez Rothi	
CHAPTER 11.	Plasticity of High-Order Cognition: A Review of Experience-Induced Remediation Studies for Executive Deficits	233
	Redmond G. O'Connell and Ian H. Robertson	
CHAPTER 12.	Neuroplasticity and the Treatment of Executive Deficits: Conceptual Considerations	257
	Rema A. Lillie and Catherine A. Mateer	

CHAPTER 13.	What Rehabilitation Clinicians Can Do to Facilitate Experience-Dependent Learning McKay Moore Sohlberg and Laurie Ehlhardt Powell	285
CHAPTER 14.	Pharmacological Therapies, Rehabilitation, and Neuroplasticity John C. Freeland	308
	Index	335