# Table of Contents

## Contents

Chapter 1: Introduction to Neurorehabilitation for the Physical Therapist Assistant  
*Darcy Umphred, PT, PhD, FAPTA and Constance Carlson, PT, MS Ed*

Chapter 2: Normal Movement Development Across the Lifespan  
*Dale Scalise-Smith, PT, PhD*

Chapter 3: Motor Learning, Motor Control, and Neuroplasticity  
*Darcy Umphred, PT, PhD, FAPTA*

Chapter 4: Examination Procedures  
*Rolando T. Lazaro, PT, MS, DPT, GCS*

Chapter 5: Intervention Procedures  
*Darcy Umphred, PT, PhD, FAPTA*

Chapter 6: Psychosocial and Cognitive Factors Affecting Therapy  
*Gordon Burton, OT, PhD*

Chapter 7: Clients With Central Nervous System Insult at Birth: Cerebral Palsy  
*Kris Corn, PT, MS, DPT*

Chapter 8: Clients With Genetic and Developmental Problems  
*Eunice Shen, PT, DPT, MS, PCS*

Chapter 9: Clients With Spinal Cord Injury  
*Claire Beekman, PT, MS, NCS*

Chapter 10: Clients With Traumatic Brain Injury  
*Dennis Klima, PT, MS, GCS, NCS*

Chapter 11: Clients With Stroke  
*Jim Smith, PT, MA and Becky McKnight, PT, MS*

Chapter 12: Clients With Degenerative Diseases: Parkinson's Disease, Multiple Sclerosis, and Amyotrophic Lateral Sclerosis  
*Rolando T. Lazaro, PT, MS, DPT, GCS*

Chapter 13: Cardiopulmonary Issues Associated With Neurorehabilitation Patients  
*Christine R. Wilson, PT, PhD*

Chapter 14: Complementary Therapies  
*Carol M. Davis, PT, EdD, MS, FAPTA*

Glossary

Index