

CONTENTS

Section 1 Background Knowledge

- 1 Guiding Principles in Neurological Rehabilitation** 3
Clare C. Bassile and Sheila Lennon
- 2 Clinical Reasoning in Neurological Physiotherapy: Assessment and Treatment Principles** 33
Jill Patricia Garner, Sheila Lennon, and James Vincent McLoughlin
- 3 Common Impairments and the Impact on Activity** 53
James Vincent McLoughlin
- 4 Observation and Analysis of Movement** 71
Amanda C. Wallace, Lisa May Bunn, and Elizabeth Cassidy
- 5 Measurement Tools** 113
Geert Verheyden and Sarah F. Tyson
- 6 Goal Setting in Rehabilitation** 129
William Mark Magnus Levack

Section 2 Management of Specific Conditions

- 7 Stroke** 151
Janne M. Veerbeek and Geert Verheyden
- 8 Traumatic Brain Injury** 177
Gavin Williams
- 9 Spinal Cord Injury** 197
Sue Paddison and Benita Hexter
- 10 Multiple Sclerosis** 235
Jennifer A. Freeman and Hilary Gunn
- 11 Parkinson's** 265
Bhanu Ramaswamy and Mariella Graziano
- 12 Inherited Neurological Conditions** 293
Monica Busse, Jonathan Marsden, Noit Inbar, and Lori Quinn
- 13 Motor Neurone Disease** 327
Caroline Brown and Vanina Dal Bello-Haas
- 14 Polyneuropathies** 355
Gita Ramdharry, Aisling Carr, and Matilde Laurá

- 15 Neuromuscular Disorders** 383
Anna Mayhew, Gita Ramdharry, Aleksandra Pietrusz, Meredith James, Jane Newman, and Charlotte Massey
- 16 Functional Motor Disorders** 413
Glenn Nielsen and Kate Holt
- 17 Vestibular Rehabilitation** 437
Dara Meldrum, Lisa Burrows, David Herdman, and Rory McConn-Walsh

Section 3 Specific Management

- 18 Respiratory Management** 473
Louise Platt and Ailsa Carmichael
- 19 Self-Management** 495
Fiona Jones and Fiona Leggat
- 20 Neurorehabilitation Technologies** 517
Belinda Lange, José Eduardo Pompeu, and Paolo Bonato
- 21 Falls and Their Management** 545
Dorit Kunkel and Digna de Kam
- 22 Physical Activity and Exercise in Neurological Rehabilitation** 571
Helen Dawes
- 23 Pain Management** 583
Mark I. Johnson and Chih-Chung Chen
- 24 Clinical Neuropsychology in Rehabilitation** 611
F. Colin Wilson
- 25 Selected Topics in Physical Management for Neurological Conditions** 627
Liesbet De Baets, Stephen Ashford, Hannes Devos, Abiodun E. Akinwuntan, Joseph Buttell, Camilla Erwee, Alexandra Henson, Prue Morgan, and Carlee Holmes

- Appendix: Answers to Self-Assessment Questions 673
- Abbreviations 689