

# Contents

Preface	vi
Acknowledgments	viii
Contributing Authors of Past Editions	ix
Contributing Authors of Eighth Edition	xi

## Section 1 Occupational Function 1

<b>1 Conceptual Foundations for Practice</b>	1
<i>Catherine A. Trombly Latham</i>	
<b>2 Occupation: Philosophy and Concepts</b>	17
<i>Catherine A. Trombly Latham</i>	
<b>3 Occupational Selection, Analysis, Gradation, and Adaptation</b>	29
<i>Julie L. Grabanski and Sclinda L. Janssen</i>	
<b>4 The Teaching and Learning Process</b>	43
<i>Lenin C. Grajo and Angela K. Boisselle</i>	
<b>5 Clinical Reasoning and the Art of Practice</b>	58
<i>Laura VanPuymbrouck</i>	
<b>6 Documentation of Occupational Therapy Services</b>	72
<i>Patricia A. Gentile</i>	

## Section 2 Assessment and Intervention 81

<b>7 Visual Function Assessment</b>	81
<i>Diane Powers Dirette and Jennifer Fortuna</i>	
<b>8 Visual Function Intervention</b>	100
<i>Christine P. Below and Kelly Lewis</i>	
<b>9 Visual Perceptual Assessment and Intervention</b>	117
<i>Kara Christy and Natasha Huffine</i>	
<b>10 Cognitive Assessment</b>	143
<i>Diane Powers Dirette and Guy L. McCormack</i>	
<b>11 Cognitive Intervention</b>	161
<i>Mary Vining Radomski and Gordon Muir Giles</i>	
<b>12 Sensory Assessment and Intervention</b>	176
<i>Carrie Ciro and Barbara M. Doucet</i>	
<b>13 Motor Function Assessment: Range of Motion, Strength, and Endurance</b>	197
<i>Veronica T. Rowe and Tracey L. Zeiner</i>	
<b>14 Motor Function Intervention</b>	268
<i>Michael J. Borst</i>	

- 15 Motor Control Assessment** 289  
*Dawn M. Nilsen and Glen Gillen*
- 16 Motor Control Intervention** 309  
*Dawn M. Nilsen and Glen Gillen*
- 17 Balance Assessment and Intervention** 327  
*Allison Chamberlain Miller*
- 18 Communication Assessment and Intervention** 344  
*Anne Escher, Sue Berger, and Anne Carney*
- 19 Swallowing and Eating Assessment and Intervention** 366  
*Wendy Avery*
- 20 Cranial Nerve Assessment** 385  
*Sharon A. Gutman and Dawn M. Nilsen*
- 21 Environmental Assessment and Modification: Home, Work, and Community** 402  
*Tracy Van Oss, Martha J. Sanders, and Pamela Hewitt*

### **Section 3 Rehabilitation Technology 431**

- 22 Upper Extremity Orthoses** 431  
*Nancy S. Hock and Lori DeMott*
- 23 Upper Extremity Orthoses Fabrication** 466  
*Nancy S. Hock*
- 24 Physical Agent Modalities and Biofeedback** 487  
*Alfred G. Bracciano*
- 25 Wheelchair and Seating Selection** 511  
*Michelle L. Lange*
- 26 Assistive Technology** 537  
*Debra K. Lindstrom and Cara Masselink*

### **Section 4 Restoration of Independent and Community Living Roles 567**

- 27 Restoring Activities of Daily Living** 567  
*Rochelle J. Mendonca, Susan Santalucia, Taliah Cook, and Colleen Maher*
- 28 Restoring Family, Parenting, and Social Roles** 603  
*Sharon A. Gutman and Marianne H. Mortera*
- 29 Restoring Home, Work, and Recreation Roles** 617  
*Mary W. Hildebrand*
- 30 Restoring Transfers and Functional Mobility** 641  
*Anita Perr*
- 31 Restoring Driving and Community Mobility** 657  
*Sherrilene Classen and Beth Pfeiffer*

### **Section 5 Frames of Reference for Physical Disability Rehabilitation 673**

- 32 The Biomechanical Frame of Reference** 673  
*Kimatha Oxford Grice*
- 33 The Rehabilitation Frame of Reference** 685  
*Sunny R. Winstead*
- 34 Motor Learning and Task-Oriented Approaches** 699  
*Dawn M. Nilsen and Glen Gillen*

<b>35 Functional Uses of Neurological Approaches: Rood, Brunnstrom, Proprioceptive Neuromuscular Facilitation, and Neuro-Developmental Treatment</b>	717	<i>Kris M. Gellert and Karen Halliday Pulaski</i>
<b>Section 6 Guidelines for Physical Dysfunction Diagnostic Categories 735</b>		
<b>36 Cerebrovascular Accident</b>	735	<i>Dawn M. Nilsen and Glen Gillen</i>
<b>37 Acquired Brain Injury</b>	765	<i>Alicia Flores Lohmann and Asha K. Vas</i>
<b>38 Neurodegenerative Diseases</b>	789	<i>Susan J. Forwell, Lucinda L. Hugos, and Setareh Ghahari</i>
<b>39 Spinal Cord Injury</b>	812	<i>Deborah E. Budash</i>
<b>40 Cardiac and Pulmonary Diseases</b>	839	<i>Midge Hobbs</i>
<b>41 Orthopedic Conditions</b>	857	<i>Colleen Maher and Rochelle J. Mendonca</i>
<b>42 Rheumatoid Arthritis and Osteoarthritis</b>	877	<i>Anne Crites and Preethy S. Samuel</i>
<b>43 Hand Impairments</b>	895	<i>Debbie Amini</i>
<b>44 Amputations and Prosthetics</b>	922	<i>Lisa Smurr Walters</i>
<b>45 Diabetes</b>	947	<i>Brigitte Vachon, Catherine Donnelly, and Setareh Ghahari</i>
<b>46 Alzheimer Disease and Other Dementias</b>	962	<i>Rosanne DiZazzo-Miller</i>
<b>47 Cancer</b>	979	<i>Mary Vining Radomski, Mattie Anheluk, Ginger Carroll, and Joette Zola</i>
<b>48 Burn Injuries</b>	994	<i>Rebecca Ozelie</i>
<b>49 Chronic Pain and Fibromyalgia</b>	1014	<i>Sharon A. Gutman and Lee Ann Westover</i>
<b>50 Human Immunodeficiency Virus</b>	1037	<i>Gayle J. Restall</i>
<b>51 Sleep Disorders Secondary to Orthopedic and Neurological Disorders</b>	1052	<i>Sharon A. Gutman</i>
<b>52 Psychosocial Adaptation to Disability</b>	1066	<i>Pat Precin</i>
<b>Index</b>	1081	