

# Contents

- 
- Foreword* vi
  - Foreword From Second edition* vii
  - Preface* viii
  - Contributors* x
  - Field Note Contributors* xiii
  - Acknowledgments* xiv

## SECTION 1 Fundamentals of Orthotic Fabrication

- 1 Concepts of Orthotic Fundamentals 00**  
by MaryLynn A. Jacobs, MBA, MS, OTR/L, CHT and Marsha Lawrence, PT, DPT, CHT
- 2 Anatomical Principles 00**  
by Noelle M. Austin, MS, PT, CHT
- 3 Tissue Healing 00**  
by Richard A. Bernstein, MD, FAAOS and Nancy Beaman, MBA, OTR/L, CHT
- 4 Mechanical Principles 00**  
by Gary P. Austin, PT, PhD, OCS, FAACOMPT, FAFS and MaryLynn A. Jacobs, MBA, MS, OTR/L, CHT
- 5 Equipment and Materials 00**  
by Noelle M. Austin, MS, PT, CHT
- 6 Fabrication Process 00**  
by Noelle M. Austin, MS, PT, CHT

## SECTION 2 Optional Methods

- 7 Relative Motion Orthoses 00**  
by Julianne Wright Howell, PT, MS, CHT and Melissa Jayne Hirth, B (OT), MSc (OT-Hand & Upper Limb Rehab)
- 8 Upper Extremity Prosthetics 00**  
by Debra Ann Latour, OTD, MEd, OTR/L
- 9 Prefabricated Orthoses 00**  
by Jamie McMillan, OTR, CHT
- 10 Casting 00**  
by MaryLynn A. Jacobs, MBA, MS, OTR/L, CHT
- 11 Orficast® and Orficast® More 00**  
by Deborah A. Schwartz, OTD, OTR/L, CHT
- 12 Delta-Cast® 00**  
by Janine Thomas, OTR/L, CHT, COMT

Copyright © 2020 Wolters Kluwer, Inc. Unauthorized reproduction of the content is prohibited.

- 13 Taping Techniques 00**  
by Kimberly Gross, MEd, OTR/L, CHT, CKTP, CDTI

- 14 Neoprene Orthoses 00**  
by Sabrina Cassella, MEd, OTR/L, CH

## SECTION 3 Orthotic Intervention for Specific Diagnoses and Populations

- 15 Stiffness 00**  
by Gary Solomon, MS, OTR/L, CHT
- 16 Fractures 00**  
by Jennifer Stephens Chisar, PT, MS, CHT and Nancy Chee, OTD, OTR/L, CHT
- 17 Arthritis 00**  
by MaryLynn A. Jacobs, MBA, MS, OTR/L, CHT, Shrikant Chinchalkar, M.Th.O, BSc.OT, QFR, CHT, Kristen MacDonald, MScOT, CHT, OT Reg. (Ont), and Joey Pipicelli, MScOT, CHT, OT Reg. (Ont)
- 18 Extensor Tendon Injuries 00**  
by Alexandra MacKenzie, OTR/L, CHT
- 19 Flexor Tendon Injuries 00**  
by Rebecca Neiduski, PhD, OTR/L, CHT
- 20 Peripheral Nerve Injuries 00**  
by MaryLynn A. Jacobs, MBA, MS, OTR/L, CHT, Danielle Wojtkiewicz, MSOT, OTR/L, CHT, and Mitchell A. Pet, MD
- 21 Tendon and Nerve Transfers 00**  
by Lorna Canavan Kahn, PT, CHT, Macy Miller Stonner, OTD, OTR/L, and Anna VanVoorhis Miller, MS, OTR/L, CHT
- 22 The Athlete 00**  
by Kimberly Goldie Staines, OTR, CHT
- 23 Adult Neurologic Dysfunction 00**  
by Salvador Bondoc, OTD, OTR/L, BCPR, CHT, FAOTA
- 24 The Pediatric Patient 00**  
by Jill Peck-Murray, MOTR/L, CHT
- 25 Burns 00**  
by Courtney Condon, MEd, OTR/L and Katherine Hartigan Norris, MS, OTR/L
- 26 Musician 00**  
by Aviva Wolff, EdD
- 27 Hand and Upper Extremity Transplantation 00**  
by Gayle Severance, MS and Amy Vissing, MHS

**Index 00**