Contents

Foreword ................................................................. v
Preface ................................................................. vi
Contributors ........................................................... xi

PART I  ANALYSIS, DEVELOPMENT, AND IDENTIFICATION MARKERS
Chapter 1: The Decomposition of Human Remains:
   A Biochemical Perspective ........................................ 3
   Robert H. Powers
Chapter 2: Forensically Significant Skeletal Anatomy ................. 17
   Nancy E. Taterek and Dorothy E. Dean
Chapter 3: Normal Osteology of the Knee Joint and Markers
   of Stress and Injury ............................................. 33
   Emily A. Craig
Chapter 4: Anthropological Analysis of the Lower Extremity:
   Determining Sex, Race, and Stature From Skeletal Elements ........ 69
   Nancy E. Taterek and Paul W. Sciulli
Chapter 5: Estimating Age at Death ........................................ 99
   Douglas H. Ubelaker
Chapter 6: Radiology of the Lower Extremity ............................. 113
   B. G. Brogdon

PART II  TRAUMA ANALYSIS AND RECONSTRUCTION
Chapter 7: Injuries to Children: A Surgeon’s Perspective .................. 241
   Jonathan I. Groner
Chapter 8: Skeletal Trauma Analysis of the Lower Extremity ............ 253
   Alison Galloway and Lauren Zephro
Chapter 9: Biomechanics of Impact Injury .................................... 279
   David J. Porta
Chapter 10: Injuries of the Thigh, Knee, and Ankle as Reconstructive Factors in Road Traffic Accidents .................................................... 311
Grzegorz Teresinski

Chapter 11: Biomechanical Analysis of Slip, Trip, and Fall Accidents ................. 343
Scott D. Batterman and Steven C. Batterman

PART III FOOT IDENTIFICATION CASE STUDIES, PEDAL EVIDENCE, AND ONGOING RESEARCH

Chapter 12: “The Game is Afoot”: Feet Help Solve Forensic Puzzles in the United States and Overseas.................................................... 359
Julie Mather Saul and Frank P. Saul

Chapter 13: The Role of Feet and Footwear in Medicolegal Investigations ............................................................................................................. 375
John A. DiMaggio

Chapter 14: Ongoing Research Into Barefoot Impression Evidence ................. 401
Robert B. Kennedy

Index ........................................................................................................................... 415
Forensic Medicine of the Lower Extremity
Rich, J.; Dean, D.E.; Powers, R.H. (Eds.)
2005, XIV, 422 p., Hardcover
ISBN: 978-1-58829-269-8
A product of Humana Press