

TABLE OF CONTENTS

Contributors **ix**
Common Terminologies and Abbreviations **xi**

Chapter 1. Functional Anatomy of the Equine Musculoskeletal System **3**

Anatomic Nomenclature and Usage **3**
Thoracic Limb **3**
Hindlimb **32**
Axial Components **56**

Chapter 2. Fundamentals of Lameness Diagnosis **65**

Definition of Lameness **65**
Classification of Lameness **66**
What to Look For **66**
Anatomic Problem Areas **75**
Occupation-related Problem Areas **75**
Evaluation of Foals with Lameness **76**
Performing a Prepurchase Examination **78**

Chapter 3. Assessment of the Lame Horse **83**

History **83**
Signalment and Use **83**
Visual Examination at Rest **83**
Palpation and Manipulation **84**
Visual Exam at Exercise **107**
Flexion Tests/Manipulation **108**
Perineural Anesthesia **114**
Intrasynovial Anesthesia **124**

Chapter 4. Imaging **149**

Radiography **149**
Ultrasound **168**
Nuclear Medicine **189**
Magnetic Resonance Imaging **202**
Computed Tomography **214**

Chapter 5. Common Conditions of the Foot **225**

Navicular Disease/Syndrome **225**
Fractures of the Navicular (Distal Sesamoid) Bone **229**
Injuries to the DDFT and Podotrochlear Apparatus **231**
Injuries to the Collateral Ligaments (CLs) of the DIP Joint **232**
Osteoarthritis (OA) of the DIP Joint **234**
Fractures of the Distal Phalanx (P3, Coffin Bone) **235**
Pedal Osteitis (PO) **239**
Subchondral Cystic Lesions of the Distal Phalanx (P3) **240**
Ossification of the Collateral Cartilage of the Distal Phalanx (Sidebone) **241**
Sole Bruises, Corns, and Abscesses **243**
Canker **244**
Thrush **245**
White Line Disease **246**
Penetrating Injuries of the Foot **247**
Keratoma **249**
Foot Imbalances **250**
Club Foot **253**

Toe Cracks, Quarter Cracks, Heel Cracks (Sand Cracks) **255**
Laminitis **257**

Chapter 6. Common Conditions of the Forelimb 267

OA of the Proximal Interphalangeal (PIP) Joint **267**
Osteochondrosis (OC) of the PIP Joint **270**
Luxation/Subluxation of the PIP Joint **272**
Fractures of the Middle Phalanx (P2) **274**
Fractures of the Proximal Phalanx (P1) **278**
Desmitis of the Distal Sesamoidean Ligaments (DSLs) **283**
SDFT and DDFT Injuries in the Pastern **284**
Osteochondral (Chip) Fractures of Proximal P1 **286**
Fractures of the Proximal Sesamoid Bones **287**
Sesamoiditis **291**
Traumatic OA of the MCP Joint (Osselets) **293**
Fetlock Subchondral Cystic Lesions (SCLs) **294**
Traumatic Rupture of the Suspensory Apparatus **295**
Digital Flexor Tendon Sheath (DFTS) Tenosynovitis **297**
Periostitis and Fracture of the Dorsal Metacarpus (Bucked Shins, Shin Splints, and Stress Fracture) **299**
MCIII/MTIII Condylar Fractures **301**
Complete Fractures of the MCIII/MTIII (Cannon Bone) **303**
“Splints” or Small MC Bone Exostosis **304**
Fractures of the Small MC/MT (Splint) Bones **306**
Suspensory Ligament (SL) Desmitis **308**
Degenerative Suspensory Ligament Desmitis (DSL) **311**
Superficial Digital Flexor (SDF) Tendinitis (Bowed Tendon) **312**
Common Digital Extensor (CDE) Tendon Rupture **314**
Extensor Carpi Radialis (ECR) Tendon Damage **316**
Intra-articular Carpal Fractures **317**
OA of the Carpus **320**
Carpal Sheath Tenosynovitis **321**
Fractures of the Radius **323**
Fractures of the Ulna **325**
Subchondral Cystic Lesions (SCLs) of the Elbow **328**
Bursitis of the Elbow (Olecranon Bursitis) **329**
Fractures of the Humerus **330**
Bicipital (Intertubercular Bursa) Bursitis **331**
Osteochondrosis (OCD) of the Scapulohumeral (Shoulder) Joint **333**
Suprascapular Nerve Injury (Sweeny) **335**
Fractures of the Supraglenoid Tubercle (Tuberosity) **337**

Chapter 7. Common Conditions of the Hindlimb 343

Distal Hindlimb and Foot **343**
Distal Tarsal Osteoarthritis (OA) **343**
Osteochondritis Dissecans (OCD) of the Tarsocrural Joint **346**
Slab/Sagittal Fractures of the Central or Third Tarsal Bones **347**
Fractures of the Tibial Malleoli **348**
Subluxations/Luxations of the Tarsal Joints **349**
Luxation of the SDFT from the Calcaneus **350**
Capped Hock/Calcaneal Bursitis **352**
Tarsal Sheath Tenosynovitis (Thoroughpin) **354**
Rupture of the Peroneus Tertius **356**
Stringhalt **357**
Tibial Stress Fractures **358**
Diaphyseal and Metaphyseal Tibial Fractures **359**
Tibial Tuberosity/Crest Fractures **360**
Fractures of the Proximal Tibial Physis **362**
Femoropatellar OCD **363**
Fractures of the Patella **364**
Upward Fixation of the Patella (UFP) **367**
Subchondral Cystic Lesions (SCLs) of the Stifle **368**
Meniscal Injuries **370**
Collateral/Cruciate Ligament Injury **373**
Synovitis/Capsulitis/OA of the Stifle **375**
Fibrotic Myopathy **375**
Diaphyseal and Metaphyseal Femoral Fractures **377**
Capital Physeal Fractures of the Femoral Head **379**
Coxofemoral Luxation (Dislocation of the Hip Joint) **380**
OA of the Coxofemoral Joint **382**
Infectious Arthritis/Physitis of the Coxofemoral Joint **383**

Chapter 8. Common Conditions of the Axial Skeleton 389

Pelvic Fractures **389**
Iliac Wing Fractures **390**
Tuber Coxae Fractures **391**
Acetabular Fractures **392**
Fractures of the Sacrum and Coccygeal Vertebrae **392**
Diseases of the Sacroiliac Region **393**
Overriding/Impingement of Dorsal Spinous Processes **395**
Supraspinous Ligament Injuries **396**
Fractures of the Spinous Processes **397**
Vertebral Fractures **397**
Discospondylitis **398**
Spondylosis **398**

Facet Joint OA and Vertebral Facet Joint Syndrome	399
Nuchal Ligament Desmopathy/Nuchal Bursitis	401
Cervical Facet Joint OA	402

Chapter 9. Therapeutic Options 405

Systemic/Parenteral	405
Topical/Local	407
Intrasynovial	408
Intralesional	411
Oral/Nutritional	413
Corrective Trimming and Shoeing	417

Chapter 10. Musculoskeletal Emergencies 429

Severe Unilateral Lameness	429
Severely Swollen Limb	430
Long Bone Fractures/Luxations	432
Synovial Infections	436
Tendon Lacerations	438
Index	443

DVD included featuring additional anatomical images and video clips demonstrating key procedures and examples of conditions in motion.

