Table of Contents

Section 1: Integrative physiology and exercise testing
Chapter 1 Integrative physiology of exercise and importance to disorders of the equine athlete
Chapter 2 Exercise testing in the laboratory
Chapter 3 Exercise testing in the field
Chapter 4 Approach to diagnosis of poor performance

Section 2: Musculoskeletal System
Chapter 5 Muscle physiology: responses to exercise and training
Chapter 6 Muscle disorders of equine athletes
Chapter 7 Skeletal physiology: responses to exercise and training
Chapter 8 Tendon physiology: responses to exercise and training
Chapter 9 Joint physiology: responses to exercise and training
Chapter 10 Imaging the musculoskeletal system
Chapter 11 Arthroscopic examination and surgery
Chapter 12 Kinematics of the athletic horse
Chapter 13 Kinematics of Lameness
Chapter 14 Diagnosis of Lameness
Chapter 15 Distal limb: foot
Chapter 16 Distal limb: fetlock and pastern
Chapter 17 Metacarpus/metatarsus
Chapter 18 The carpus
Chapter 19 Tarsus and stifle
Chapter 20 Soft tissue injuries: tendonitis and desmitis
Chapter 21 Musculoskeletal section: back and pelvis
Chapter 22 Prevention of orthopedic disease in athletic horses
Chapter 23 Pharmacotherapy of Joint and Tendon Disease
Chapter 24 Neurological causes of gait abnormalities in athletic horses
Chapter 25 Physical Treatment

Section 3: Respiratory System
Chapter 26 Upper airway function of normal horses during exercise
Chapter 27 Abnormalities of the upper airway.
Chapter 28 Lower airway function of normal horses: response to exercise and training.
Chapter 29 Non-infectious diseases of the lower respiratory tract including EIPH
Chapter 30 Viral diseases of the respiratory tract of athletic horses
Chapter 31 Bacterial Infections of the respiratory tract of athletic horses

Section 4: Cardiovascular
Chapter 32 Heart and vessels: function during exercise and response to training
Chapter 33 Diseases of the heart & vessels

Section 5: Metabolism and Nutrition