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of performance horses; 3.2.7 Common diet problems and simple feeding rules; 3.2.8 Summary: Feeding hints for all horses; References; Chapter 4 Applied animal biomechanics; 4.1 Introduction
4.2 Joint biomechanics 4.2.1 Joint stiffness; 4.2.2 Joint instability; 4.2.3 Clinical instability; 4.3 Biomechanics of the vertebral joints; 4.4 Canine vertebral column; 4.4.1 Cervical spine (O/C1-C7); 4.4.2 Thoracic spine (T1-T13); 4.4.3 Lumbar spine (L1-L7); 4.4.4 Lumbosacral and sacroiliac joint; 4.5 Equine vertebral column; 4.5.1 Cervical spine (O/C1-C7); 4.5.2 Cervicothoracic junction (C7/T1); 4.5.3 Thoracic spine (T1-T18); 4.5.4 Lumbar spine (L1-L6); 4.5.5 Lumbosacral and sacroiliac joint; 4.5.6 Summary; 4.6 Canine peripheral joints; 4.7 Equine peripheral joints; 4.7.1 Summary
4.8 Mechanics of locomotion: the dog 4.9 Mechanics of locomotion: the horse; 4.10 Considerations in sport-specific pathology; 4.10.1 Flat racing; 4.10.2 Dressage; 4.11 Biomechanics of the equine foot; 4.12 Conclusion; References; Further reading; Chapter 5 Comparative exercise physiology; 5.1 Introduction; 5.2 Principles of exercise physiology; 5.2.1 Energy production for exercise; 5.2.2 Aerobic energy production; 5.2.3 Anaerobic energy production; 5.2.4 Energy sources during exercise; 5.2.5 Energy partitioning; 5.3 The pathway of oxygen; 5.3.1 Maximal oxygen uptake (VO₂max)
5.3.2 Kinetics of oxygen uptake and effect of a warm-up 5.4 Cardiorespiratory function during exercise; 5.5 The effect of training; 5.5.1 Cardiorespiratory responses to training; 5.5.2 Skeletal muscle adaptations to training; 5.5.3 Muscle glycogen concentration; 5.6 Detraining; 5.7 Applied exercise physiology; 5.7.1 Designing training programmes; 5.7.2 Use of heart rate in training programmes; 5.7.3 Lactate and its use in exercise and training; 5.8 High altitude training; 5.9 Maximal performance and factors limiting maximal performance in the horse; 5.9.1 Equine poor performance
5.9.2 Upper respiratory tract disorders

Sommario/riassunto

Animal Physiotherapy is an essential reference guide for physiotherapists looking to apply the proven benefits of physiotherapy to the treatment of companion and performance animals. For veterinarians and others who work with animals, the book reviews the scientific principles behind the practice of physiotherapy, and what it can achieve. For the physiotherapist this book provides essential applied background information on animal behaviour, nutrition, biomechanics and exercise physiology.
