Contents

List of Contributors ix

1 The Normal Anatomy of the Neck 1
   David Bainbridge

2 The Normal Anatomy of the Osseous and Soft Tissue Structures of the Back and Pelvis 9
   Leo B. Jeffcott, Jessica A. Kidd and David Bainbridge
   2.1 Normal Anatomy of the Osseous Structures 9
   2.2 Normal Anatomy of the Soft Tissue Structures of the Back 21
   2.3 Normal Anatomy of the Soft Tissue Structures of the Pelvis 30

3 The Normal Anatomy of the Nervous System 39
   Constanze Fintl

4 Kinematics 49
   Rene van Weeren

5 Neurological Examination of the Back and Pelvis 73
   Constanze Fintl

6 Clinical Examination 81
   Graham A. Munroe

7 Radiography of the Cervical Spine 95
   Marianna Biggi, Gabriel Manso-Díaz and Renate Weller

8 Radiography of the Back 107
   Frances M.D. Henson

9 Nuclear Scintigraphy and Computed Tomography of the Neck, Back and Pelvis 121
   Sarah Powell
Contents

10 Ultrasonography  143
   Mary Beth Whitcomb, Luis P. Lamas and Marcus Head
   10.1 Ultrasonography of the Thoracic Spine  143
   10.2 Ultrasonography of the Pelvis, Lumbar Spine and Sacroiliac Region  149

11 Thermography  165
   Tracy Turner

12 Neck Pathology  175
   Richard Hepburn

13 Back Pathology  195
   Adam Driver, Frances M.D. Henson, Jessica A. Kidd, Luis P. Lamas and Rob Pilsworth
   13.1 Traumatic damage  195
   13.2 Over Riding Dorsal Spinous Processes ('Kissing Spines')  208
   13.3 Miscellaneous Osseous Pathology  216
   13.4 Pathology of the Supraspinous and Dorsal Sacroiliac Ligaments  224

14 Sacroiliac Dysfunction  239
   Leo B. Jeffcott

15 Muscular Disorders  249
   Richard J. Piercy and Renate Weller

16 Integrative and Physical Therapies  265
   Joyce Harman and Mimi Porter
   16.1 Integrative Therapies  265
   16.2 Physical Therapies  278

17 Rehabilitation  283
   Mary Bromiley

Index  297