CONTENTS

Preface ix

1. Physics 1
   Section 1. Comparative Imaging 1
   Patrick R. Gavin
   Section 2. Basic Physics 4
   Patrick R. Gavin
   Section 3. Sequence Selection 8
   Patrick R. Gavin
   Section 4. Artifacts 10
   Patrick R. Gavin
   Section 5. Equipment Consideration and Selection 21
   Patrick R. Gavin

2. Veterinary Clinical Magnetic Resonance Imaging 23
   Section 1. Diagnosis of Intracranial Disease 23
   Rodney S. Bagley, Patrick R. Gavin, and Shannon P. Holmes
   Section 2. Diagnosis of Spinal Disease 123
   Rodney S. Bagley, Patrick R. Gavin, and Shannon P. Holmes
   Section 3. Magnetic Resonance Imaging of Peripheral Nerve Disease 227
   Rodney S. Bagley, Patrick R. Gavin, and Shannon P. Holmes

3. Orthopedic 233
   Patrick R. Gavin and Shannon P. Holmes

4. Magnetic Resonance Imaging of Abdominal Disease 273
   Patrick R. Gavin and Shannon P. Holmes

5. Thorax 295
   Patrick R. Gavin and Shannon P. Holmes
6. Head—Non-CNS 309
   Patrick R. Gavin and Shannon P. Holmes

7. Cancer Imaging 333
   Susan L. Kraft

Index 357