

# TABLE OF CONTENTS

- □ Cover image
- Title page
- Copyright
- Dedication
- Preface
- Acknowledgments
- Section Editors
- Contributors
  
- **Section 1 Infectious Diseases**
  - 1 Rational Approach to Diagnosing and Managing Infectious Causes of Diarrhea in Kittens
    - Parasitic Causes of Diarrhea
    - Bacterial Causes of Diarrhea
    - Viral Causes of Diarrhea
    - Diagnostic Approach to the Kitten with Suspected Infectious Diarrhea
    - Empirical Therapy for Kittens with Diarrhea of Unknown Cause
    - Conclusion
    - References
  - 2 Respiratory and Ocular Mycoplasmal Infections: Significance, Diagnosis, and Management
    - Etiology
    - Epidemiology
    - Pathogenesis
    - Clinical Disease and Differential Diagnoses
    - Diagnosis
    - Treatment
    - Prevention
    - Zoonotic Potential
    - Summary
    - References
  - 3 Update on Mycobacterial Infections: Diagnosis, Management, and Zoonotic Considerations
    - Etiology and Epidemiology
    - Clinical Features
    - Diagnosis
    - Treatment
    - Prevention of Infection
    - Prognosis
    - Public Health Risks
    - References
  - 4 Practical Antimicrobial Therapy
    - Cephalosporins
    - Fluoroquinolones
    - Tetracyclines

- Principles to Optimize the Clinical Use of Antimicrobials
- References
- 5 Emerging Aspects of Streptococcal Infections in Cats
- Streptococcus Canis
- Streptococcus Equi Subspecies Zooepidemicus
- Summary
- References
- 6 Dealing with Toxoplasmosis: Clinical Presentation, Diagnosis, Treatment, and Prevention
- Clinical Presentation
- Diagnosis
- Treatment
- Prevention
- Conclusion
- References
- 7 Update on Antiviral Therapies
- Feline Immunodeficiency Virus
- Feline Leukemia Virus
- Feline Herpesvirus Type 1
- Feline Coronavirus and Feline Infectious Peritonitis
- Interferon
- Summary
- References
- 8 The Gut Microbiome
- Assessment of the Gut Microbiota
- Therapeutic Manipulation of the Microbiome
- Beyond Bacteria
- References

- **Section 2 Gastrointestinal Diseases**

- 9 Complementary and Alternative Medicine Therapies for Inflammatory Bowel Disease
- Current Therapeutic Strategy
- Cobalamin
- Probiotics
- Stem Cells
- References
- 10 The Role of the Microbiota in Feline Inflammatory Bowel Disease
- What Bacteria Colonize the Healthy Feline Gastrointestinal Tract?
- Bacteria and Inflammatory Bowel Disease/Chronic Enteropathies
- Implications for Therapy
- Summary
- References
- 11 Disorders of Esophageal, Gastric, and Intestinal Motility in Cats
- Esophagus
- Stomach
- Small Intestine
- Colon
- Generalized Motility Disorders

- Gastrointestinal Prokinetic Drugs for Use in Cats
- References
- 12 Feline Inflammatory Gastrointestinal Disease
- Triaditis: Past and Present Perspective
- Proposed Mechanisms for Multi-Organ Inflammation
- Reclassification of Feline Inflammatory Liver Disease
- Feline Pancreatitis
- Idiopathic Inflammatory Bowel Disease
- References
- 13 Update on Oral Inflammation in the Cat
- Healthy Oral Tissues
- Gingivitis and Periodontitis
- Stomatitis
- Squamous Cell Carcinoma
- Eosinophilic Granuloma
- Foreign Body
- Immune-Mediated and Autoimmune Diseases
- Metabolic Disease
- Burns
- Summary
- References
- 14 Diagnostic Imaging of the Gastrointestinal Tract and Tissue Sampling
- Hepatic Parenchymal Disease
- Gallbladder
- Bile Ducts
- Hepatic Function
- Portosystemic Vascular Disease
- The Pancreas
- Interventional Procedures
- Gastrointestinal Radiography
- Gastrointestinal Ultrasound
- Ultrasound-Guided Sample Collection
- References
- 15 The Challenges of Pancreatitis in Cats: A Diagnostic and Therapeutic Conundrum
- Classification
- Incidence
- Etiology
- Comorbidities
- Clinical Signs
- Diagnostic Methods
- Treatment
- Summary
- References
- 16 Feline Extrahepatic Bile Duct Obstruction: Medical versus Surgical Management
- Epidemiology
- History and Clinical Signs
- Diagnostic Workup
- Treatment

- Prognosis
- Summary
- Acknowledgements
- References
  
- **Section 3 Endocrine and Metabolic Diseases**
  
- 17 Clinical Remission and Survival in Diabetic Cats: What Has Changed Over the Last Decade
  - Survival and Prognostic Factors
  - Clinical Remission and Its Predictors
  - Summary
  - References
- 18 Management of Idiopathic Hypercalcemia
  - Diagnosis of Idiopathic Hypercalcemia
  - Treatment
  - References
- 19 The Diabetic Cat: Insulin Resistance and Brittle Diabetes
  - Structured Stepwise Approach to Treating Difficult Diabetics
  - References
- 20 Continuous Glucose Monitoring in Cats with Diabetes
  - Continuous Glucose Monitoring Methodology
  - Placement and Calibration
  - Limitations
  - Clinical Applications
  - References
- 21 Treatment of Severe, Unresponsive, or Recurrent Hyperthyroidism
  - Factors That May be Involved in the Pathogenesis of Feline Hyperthyroidism
  - Thyroid Pathology in Cats with Hyperthyroidism
  - Correlation between the Degree of Hyperthyroidism and Severity of Clinical Signs
  - Causes for Treatment Failure
  - Therapy for Severe, Unresponsive, or Recurrent Hyperthyroidism
  - Summary
  - References
- 22 Diagnostic Testing for Hyperthyroidism in Cats
  - Thyroid Hormone Concentrations
  - Thyroidal Radioisotope Uptake
  - Other Diagnostic Tests
  - Summary
  - References
- 23 Diagnosis and Management of Iatrogenic Hypothyroidism
  - Clinical Features of Feline Hypothyroidism
  - Hypothyroidism and the Kidney
  - Diagnosing Cats with Hypothyroidism
  - Treating Cats with Natural or Iatrogenic Hypothyroidism
  - References
- 24 Treatment of Hyperthyroidism and Concurrent Renal Disease
  - Identifying Hyperthyroid Cats with Concurrent Chronic Kidney Disease

- Initiation of Symptomatic Therapy for Chronic Kidney Disease Concurrent with Antithyroid Therapy
- References
- 25 Are Methimazole Trials Really Necessary?
- Effect of Thyroid Hormones on Renal Function
- Changes in Glomerular Filtration Rate, Creatinine, and Urea with Treatment of Hyperthyroidism in Cats
- Arguments For Performing Methimazole Trials
- Arguments Against Performing Methimazole Trials
- Special Circumstances in Which Methimazole Treatment Is Strongly Advised Before Definitive Treatment
- Summary
- References

## • **Section 4 Dermatology**

- 26 Cutaneous Manifestations of Internal Disease
- Cutaneous Paraneoplastic Syndromes
- Cutaneous Manifestations of Hormonal Changes
- Cutaneous Xanthomas
- Superficial Necrolytic Dermatitis
- Immune-Mediated Skin Disease Associated with Internal Disease
- Panniculitis Associated with Pancreatitis
- References
- 27 Diagnostically Challenging Dermatoses of Cats
- Plasma Cell Pododermatitis
- Urticaria Pigmentosa-Like Dermatitis
- Idiopathic Ulcerative Dermatitis
- Proliferative and Necrotizing Otitis Externa
- Idiopathic Facial Dermatitis
- Degenerative Mucinotic Mural Folliculitis
- Cutaneous Lymphocytosis (Indolent Cutaneous Lymphoma)
- Feline Progressive Histiocytosis
- References
- 28 Feline Food Allergy
- Pathogenesis
- Food Allergens
- Clinical Features
- Differential Diagnoses
- Diagnosis
- Prognosis and Long-Term Management
- References
- 29 Cyclosporine in Feline Dermatology
- Mechanism of Action
- Pharmacokinetics
- Drug Interactions
- Applications in Feline Dermatology
- Side Effects/Adverse Events
- Monitoring
- Summary

- References
- 30 Glucocorticoids in Feline Dermatology
- Mechanism of Action
- Dosing
- Side Effects
- Summary
- References
- 31 Dermatophytosis: Decontamination Recommendations
- Environmental Contamination
- Environmental Sampling
- Decontamination of Nonporous Surfaces
- Decontamination of Textiles
- Decontamination of Carpets
- Decontamination of Bowls
- Decontamination of Hair Clippers
- Summary
- Acknowledgments
- References
- 32 Recognition of and Approach to Feline Cutaneous Reaction Patterns
- Clinical Presentation of Cutaneous Reaction Patterns
- Diagnosis
- Summary
- References
- 33 Malassezia spp. in Feline Dermatology
- Epidemiology and Pathogenesis
- Clinical Presentation
- Diagnosis
- Treatment
- Zoonotic Considerations
- Summary
- References

- **Section 5 Cardiology and Respiratory Medicine**

- 34 Cardiac Blood Tests
- Natriuretic Peptides
- Detection of Underlying Heart Disease
- Assessment of Disease Severity
- Detecting Heart Failure in the Cat with Respiratory Signs
- Prognostic Value and Guide to Treatment
- Cardiac Troponins
- Limitations of Cardiac Blood Testing
- Acknowledgment
- References
- 35 Treatment and Prevention of Feline Arterial Thromboembolism
- Introduction
- Clinical Signs
- Management
- Survival
- Prevention of Arterial Thromboembolism

- Summary
- References
- 36 Feline Lungworm Infection
- Etiology
- Life Cycle and Pathogenesis
- Clinical Signs
- Diagnostic Evaluation
- Treatment and Prognosis
- Acknowledgments
- References
- 37 Feline Laryngeal Disease
- Etiology of Laryngeal Disease
- Signalment
- Clinical Findings
- Diagnostics
- Treatment of Laryngeal Disease
- Prognosis
- References
- 38 Feline Hypertension
- Definition of Hypertension
- Etiology of Hypertension
- Target Organ Injury
- Diagnosis of Feline Hypertension
- Treatment Strategies for Feline Hypertension
- Prognosis for Feline Hypertension
- Summary
- References
- 39 Nutritional Management of Heart Disease
- Important Issues for All Cats with Heart Disease
- Nutritional Goals Based on the Stage of Disease
- References
- 40 Genetics of Feline Heart Disease
- Congenital Heart Disease
- Cardiomyopathy
- References
- 41 Update on the Management of Feline Cardiomyopathy
- Heart Disease/Failure Classification
- Classification-Based Diagnostic, Treatment, and Follow-Up Strategies
- References
- 42 Radiographic and Computed Tomography Imaging of the Feline Thorax
- Imaging Modalities
- The Heart
- Lungs
- Pleural Space
- Mediastinal Masses
- References
- 43 Feline Heartworm Disease
- Epidemiology and Life Cycle
- Pathophysiology and Clinical Features
- Diagnostic Tests

- Prevention
- Clinical Management
- Summary
- References
- 44 Approach to Feline Cardiorespiratory Disease in Shelter Medicine
- Animal Sheltering
- Cardiopulmonary Recommendations for Felines in Shelter Facilities
- Sheltering to Mitigate Feline Infectious upper Respiratory Tract Disease
- Managing Infectious upper Respiratory Infection
- Cardiac Disorders
- Cardiopulmonary Parasites
- Summary
- References
- 45 Feline Lower Airway Disease
- Clinical Signs
- Differential Diagnoses
- Physiology
- Chronic Bronchitis Versus “Asthma”
- Causes
- Diagnostic Imaging
- Other Diagnostic Tests
- Treatment
- What Does Not Work
- Future Directions in Therapy
- Summary
- References
- 46 Ultrasound Imaging for Diagnosis and Staging of Feline Cardiomyopathy
- Prognostic Factors
- Echocardiographic Technique in Cats
- Role of Echocardiography Versus Other Diagnostic Tests
- Summary
- References

- **Section 6 Upper and Lower Urinary Tract Diseases**

- 47 Chronic Kidney Disease: An Update
- Staging of Chronic Kidney Disease
- Establishing a Diagnosis of Chronic Kidney Disease
- Initial Evaluation of Animals with Chronic Kidney Disease
- Establishing the Chronic Kidney Disease Stage of the Patient's Disease
- Prognosis
- Substaging Chronic Kidney Disease on Basis of Blood Pressure
- Substaging Chronic Kidney Disease on Basis of Proteinuria
- Renal Evaluation and Specific Therapy
- Evaluation of Progression and Renoprotective Therapy
- Patient Evaluation and Symptomatic Therapy
- Follow-UP Patient Evaluations
- Summary
- References
- 48 Phosphate and the Kidney

- Phosphorus Homeostasis
- Hyperphosphatemia and Renal Secondary Hyperparathyroidism
- References
- 49 Chronic Kidney Disease: Stem Cell Therapy
- Regenerative Medicine
- Mesenchymal Stem Cell Sources
- Mesenchymal Stem Cell Characterization
- Mesenchymal Stem Cell Immunologic Properties
- Mesenchymal Stem Cell Therapy for Chronic Kidney Disease: Rodent Models
- Mesenchymal Stem Cell Therapy for Chronic Kidney Disease: Feline Clinical Trials
- Summary
- References
- 50 Acute Kidney Injury
- Etiology and Pathophysiology
- Epidemiology
- History, Clinical Signs, and Physical Examination
- Diagnosis
- Therapy
- Prognosis
- References
- 51 Update on Feline Urolithiasis
- Etiopathogenesis
- Location of Uroliths and Clinical Signs
- Diagnosis of Uroliths
- Description of Uroliths
- Management of Uroliths
- References
- 52 Urinary Tract Infection
- Etiology and Epidemiology
- Pathogenesis
- Clinical Signs
- Diagnosis
- Differential Diagnoses
- Treatment
- Prevention
- Nonbacterial Urinary Tract Infection
- References
- 53 Feline Idiopathic Cystitis
- Risk Factors for Feline Interstitial Cystitis
- Histopathology
- Research on Infectious etiology for Feline Interstitial Cystitis
- Bladder and Systemic Abnormalities in Feline Interstitial Cystitis
- Epigenetic Studies
- Comorbidities
- Clinical Implications of Research
- Approach to the Patient
- Initial Management
- Chronic Management
- Managing the Cat with Chronic Feline Interstitial Cystitis

- Summary
- References

- **Section 7 Oncology**

- 54 Squamous Cell Carcinoma in Cats
- Oral Squamous Cell Carcinoma
- Cutaneous Squamous Cell Carcinoma
- Squamous Cell Carcinoma in Other Sites
- Summary
- References
- 55 Plasma Cell Disorders
- Epidemiology
- Etiology
- Clinical Features
- Diagnostic Investigations
- Clinical Pathology of Gammopathies
- Pathology of Plasma Cells and Plasma Cell Disorders
- Pathology of Protein Deposition Diseases—Amyloidosis and Monoclonal Immunoglobulin Deposition Disease
- Feline Plasma Cell Disorder—Existing Diagnoses in the Published Literature
- A Suggested Reclassification of Plasma Cell Disorder
- Treatment and Outcome
- References
- 56 Feline Soft Tissue Sarcomas
- Pathogenesis and Epidemiology
- Pathology and Biologic Behavior
- Diagnostic Evaluation
- Treatment
- Prognosis and Prognostic Factors
- Prevention and Risk Reduction
- Summary
- References
- 57 A Review and Update on Gastrointestinal Lymphoma in Cats
- History, Risk Factors, Etiology, and Epidemiology
- Histopathology and Biologic Behavior
- Clinical Signs, Diagnostic Tests, and Staging
- Subtypes and Treatment Recommendations
- Response Assessment
- Prognostic Factors
- Rescue Protocols
- The Future
- References
- 58 Electrochemotherapy in Feline Oncology
- Fundamentals of Electrochemotherapy
- Electrochemotherapy for Feline Soft Tissue Sarcoma
- Adjuvant Electrochemotherapy for the Treatment of Soft Tissue Sarcomas
- Feline Lymphoma
- Feline Head and Neck Carcinoma
- Electrochemotherapy in Uncommon Feline Tumors

- Currently Adopted Electrochemotherapy Protocols in Feline Oncology
- Summary
- References
- 59 Feline Mammary Carcinoma
- Epidemiology and Risk Factors
- Relevant Anatomy
- Tumor Biology
- Clinical Data
- Prognostic Factors
- Treatment
- References
- 60 Vascular Access Ports in Cats
- Clinical Uses
- Vascular Access Port Placement
- Vascular Access Port Use
- Potential Complications
- Summary
- References

- **Section 8 Nutrition**

- 61 Feeding the Senior and Geriatric Cat
- Life Stage Nutrition
- Aging and Age-Related Disease
- Nutritional Assessment of Senior and Geriatric Feline Patients
- Senior Diets
- Making Individualized Recommendations for Older Cats
- References
- 62 The Unique Metabolic Adaptations and Nutrient Requirements of the Cat
- Anatomy and Physiology
- Feeding Behavior
- Specific Nutrients
- Summary
- References
- 63 Cats and Carbohydrates: How Much Should We Feed?
- Feline Carbohydrate Metabolism
- Carbohydrate Excess
- Summary
- References
- 64 Current Concepts in Preventing and Managing Obesity
- Prevalence and Risk Factors
- Health Risks of Obesity
- Adipose Tissue Pathology
- Prevention of Obesity
- Diagnosis of Obesity
- Treatment
- Summary
- References
- 65 Current Feeding Practices of Cat Owners
- Cats as Obligate Carnivores

- Natural, Organic, Grain-Free, and Byproduct-Free Pet Foods
- Vegan and Vegetarian Diets
- Home-Prepared Diets
- Raw Meat-Based Diets
- References
- 66 Critical Care Nutrition
- Importance of Nutrition during Critical Illness
- Indications for Nutritional Support
- Nutritional Assessment
- Goals of Nutritional Support
- Nutritional Plan
- Calculating Nutritional Requirements
- Enteral Nutrition
- Parenteral Nutrition
- Monitoring and Reassessment
- Pharmacological Agents in Nutritional Support
- Future Direction in Critical Care Nutrition
- Summary
- References

## • **Section 9 Population Medicine**

- 67 Evidence-Based Feline Medicine: Principles and Practicalities
- What is Evidence-Based Medicine?
- Origins and History of Evidence-Based Veterinary Medicine
- WHY Do We Need Evidence-Based Feline Medicine?
- What is Evidence?
- Getting Started
- The Steps of Evidence-Based Feline Medicine
- The Future of Evidence-Based Feline Medicine
- References
- 68 Lost Cats: Epidemiology and Best Practices for Identification and Recovery
- Visual Identification
- Less Obvious Forms of Identification
- Enhancing Identification and Recovery
- Summary
- Acknowledgment
- References
- 69 Clinical Management of Large-Scale Cruelty Cases
- Introduction
- Veterinary Medical Teams
- Crime Scene Evaluation
- Scene Response
- Examination, Diagnostics, and Treatment
- Common Medical Findings
- Summary
- References
- 70 Strategies for Infectious Disease Management in Shelter Cats
- Immunization Protocols
- Immunity-Related Risk Factors

- Antibody Titer Assessment
- Evidence-Based Outbreak Response
- Summary
- References
- 71 Foster Care Programs in Animal Shelters
- Types of Programs
- Selection of Animals for Foster Care
- Management and Oversight
- Animal Care in Foster Programs
- Outcomes for Foster Animals
- Summary
- References
- 72 Kitten Nurseries: A Practical Guide
- Planning the Nursery
- Setting Up the Nursery
- Biosecurity
- Kitten Care (Birth Through 8 Weeks)
- Medical Care and Protocol Development
- Training the Staff and Volunteers
- Effective Adoption Programs
- Summary
- References
- 73 Environmental Strategies to Promote Health and Wellness
- Environmental Effects on Health and Welfare
- Physiological and Behavioral Changes Associated with Stress in the Veterinary Clinic
- Environmental Enrichment
- The Multimodal Environmental Modification Process
- Low Stress Handling
- Conspecific Social Interactions
- Implementing Change in the Home Environment
- Summary
- References
- 74 Population Structure and Genetic Testing in Cats
- Genetic Structure of the Cat Population
- Genetic Testing in Domestic Cats
- Summary
- References
- 75 Anesthetic-Related Morbidity and Mortality in Cats
- Feline Perioperative Mortality
- Special Topics in Feline Anesthesia
- Summary
- References
  
- **Section 10 Emergency and Critical Care Medicine**
  
- 76 Emergency Approach to Respiratory Distress: Heart Versus Lung
- Triage and Initial Therapies
- Clinical Signs and Physical Examination Findings
- Diagnostic Testing

- Laryngeal Disease
- Pneumonia
- Pleural Space Disease
- Trauma
- Cardiac Disease
- Lower Airway Disease
- Summary
- References
- 77 Current Diagnostics and Therapeutics in Feline Hypercoagulability
- Thrombus Formation
- Etiologies and Predisposing Conditions Leading to Hypercoagulability
- Assessment of Coagulation Status
- Diagnosis of Hypercoagulability
- Antithrombotic Therapies
- Anticoagulants
- Oral Factor Xa Inhibitors
- Nonsteroidal Anti-Inflammatory Drugs
- Adenosine Diphosphate Receptor Antagonists
- Glycoprotein IIb/IIIa Receptor Antagonists
- Summary
- References
- 78 Selection and Use of Blood Products in the Feline Patient
- Collection of Feline Blood
- Feline Blood Types
- Available Feline Blood Products
- Transfusion Reactions
- Administration Tips
- References
- 79 Feline Toxins: Recognition, Diagnosis, Treatment
- Selected Toxicities
- References
- 80 Traumatic Brain Injury
- Definition and Etiology
- Pathophysiology
- Initial Evaluation
- Diagnosis
- Treatment Recommendations
- Surgical Intervention
- Prognosis
- References
- 81 Pyothorax
- Definition and Etiology
- Clinical Signs
- Diagnosis
- Treatment
- Prognosis and Prophylaxis
- References
- 82 Feline Cardiopulmonary Resuscitation: Current Evidence-Based Guidelines
- Etiology and Outcome of Cardiopulmonary Arrest
- The Reassessment Campaign on Veterinary Resuscitation Initiative

- Early Recognition and Prevention
- Basic Life Support
- Advanced Life Support
- Postcardiac Arrest Care
- Summary
- References
- 83 Acute Hemolytic Disorders in Cats
- Hereditary Causes
- Immune-Mediated Hemolytic Anemia
- Infectious Causes
- Chemical and Toxin-Induced Hemolytic Anemia
- Miscellaneous Causes
- Summary
- References
- 84 Fibrosing Pleuritis
- Pathophysiology and Relevant Anatomy
- Clinical Signs
- Diagnostic Tests
- Therapy and Prognosis
- References
- 85 Feline Diabetic Ketoacidosis
- Laboratory Findings
- Treatment and Monitoring
- Prognosis
- References
- 86 Feline Circulatory Shock
- Pathophysiology
- Resuscitation
- Monitoring
- Persistent Circulatory Shock
- Continued Care
- References
- 87 Recognition and Treatment of Hypertensive Crises
- Incidence of Feline Hypertension
- Definitions
- Diseases and Conditions Related to Systemic Hypertension
- Pathophysiology
- Emergency Presentation
- Diagnosis
- Emergency Management
- Prognosis
- Prevention
- Summary
- References
- 88 Endourology in the Feline Patient: Urinary Diversion Techniques
- Interventions in Human Urology
- Equipment for Feline Patients
- Summary
- References

- **Section 11 Behavioral Medicine**

- 89 Update on Feline Housesoiling and Urine Marking
  - Gathering Information
  - Differentiating Problem Elimination
  - Housesoiling
  - Urine Marking
  - Summary
  - References
- 90 Feline Anxiety and Fear-Related Disorders
  - Definition of Anxiety and Fear
  - The Anatomy and Physiology of Anxiety and Fear
  - Effects of Chronic Stress
  - Body Postures
  - Genetic and Environmental Contributions to Anxiety and Fear
  - Ruling Out Medical Problems
  - Diagnosis, Prognosis, and Treatment of Anxiety and Fear-Related Disorders
  - Specific Anxiety and Fear-Related Disorders
  - Compulsive Disorders
  - Summary
  - References
- 91 Feline Aggression Toward People
  - Epidemiology
  - History and Clinical Signs
  - Diagnostic Categories
  - Basic Treatment Recommendations for All Types of Aggression
  - Prognosis
  - Prophylaxis
  - Summary
  - References
- 92 Intercat Aggression
  - Aggressive and Affiliative Behaviors
  - Clinical Evaluation of Aggression
  - Treatment
  - Prognosis
  - Summary
  - References
- 93 Creating Harmony in Multiple Cat Households
  - Understanding Interactions in Multiple Cat Households
  - Inappropriate Behaviors in a Multiple Cat Households
  - Managing the Environment to Create Harmony in a Multiple Cat Household
  - Summary
  - References
- 94 Feline Social Behavior and Personality
  - Social Behavior
  - Personality
  - The Interaction of Social Behavior and Personality
  - Why a Feline Personality Model is Needed
  - Summary
  - References

- **Section 12 Pediatric and Geriatric Medicine**
- 95 Sarcopenia and Weight Loss in the Geriatric Cat
- Weight Loss in Aging Cats
- Cachexia of Disease
- Summary
- References
- 96 Osteoarthritis in the Aging Cat
- Risk Factors
- Etiopathogenesis
- Clinical Features
- Radiography
- Management
- Summary
- References
- 97 Proactive Maintenance of the Aging Feline Immune System
- The Feline Immune System
- Immunosenescence
- Immune Cell Generation and Maintenance
- Immune Cell Function
- Management of Immunosenescence in the Cat
- Summary
- References
- 98 Cognitive Dysfunction in the Cat
- Prevalence of Cognitive Dysfunction Syndrome
- Pathophysiology of Cognitive Dysfunction Syndrome
- Management of Cognitive Dysfunction Syndrome
- Summary
- References
- 99 Anesthesia for the Aging Cat
- Risks of Being a Cat
- Risks of Being a Geriatric Cat
- Anesthesia
- Summary
- References
- 100 Cardiorenal Syndrome
- Prevalence
- Pathophysiology
- Diagnosis
- Therapy
- Prognosis
- References
- 101 Medicating the Very Young and the Very Old Cat
- Drug Disposition in the Pediatric Cat
- Physiologic Changes in the Geriatric Patient
- References
- 102 Neonatal Resuscitation and Supportive Care in Cats
- Physical Examination of Critical Neonates
- Cardiopulmonary Resuscitation in Neonates
- Fluid Therapy in Neonates

- Neonatal Isoerythrolysis
- Clinical Pathology in Critical Neonates
- Pain Management for Neonates
- Summary
- References
- 103 Disorders and Normal Variations of the Oral Cavity of Kittens and Senior Cats
- Clefts
- Malocclusion
- Abnormalities of Teeth
- Symphyseal Bone Loss and Open-Mouth Jaw Locking
- Summary
- References
- Index.