

## Contents

**Preface** *vii*

**Acknowledgments** *ix*

**About the Companion Website** *xi*

### **Section 1 Basics for Clinical Veterinary Ophthalmology** *1*

#### **1 Development and Morphology of the Eye and Adnexa** *3*

Section I: Development of the Eye and Adnexa *3*

Section II: Morphology of the Eye and Adnexa *13*

#### **2 Ophthalmic Physiology and Vision** *59*

Section I: Physiology of the Eye *59*

#### **3 Ocular Pharmacology and Therapeutics** *114*

Section I: Ocular Drug Delivery *114*

### **Section 2 Ocular Exam and Imaging** *161*

#### **4 Eye Examination and Diagnostics** *163*

### **Section 3 Canine Ophthalmology** *217*

#### **5 Canine Orbit: Disease and Surgery** *219*

#### **6 Canine Eyelids: Disease and Surgery** *239*

#### **7 Canine Nasolacrimal and Lacrimal Systems: Disease and Surgery** *270*

Section I: Nasolacrimal Duct System *270*

#### **8 Canine Conjunctivae and Nictitating Membrane: Disease and Surgery** *290*

#### **9 Canine Cornea and Sclera: Diseases and Surgery** *310*

<b>10 The Canine Glaucomas</b>	<b>355</b>
<b>11 Canine Anterior Uvea: Diseases and Surgery</b>	<b>394</b>
<b>12 Canine Cataracts, Lens Luxations, and Surgery</b>	<b>426</b>
Section I: Cataracts – Clinical Findings	426
Section II: Cataract Surgery	455
<b>13 Diseases and Surgery of the Canine Posterior Segment</b>	<b>469</b>
Section I: Diseases and Surgery of the Canine Vitreous	469
Section II: Diseases of the Canine Ocular Fundus	478
Section III: Surgery of the Canine Posterior Segment	515
Section IV: Optic Nerve	525
<b>Section 4 Special Species</b>	<b>539</b>
<b>14 Feline Ophthalmology</b>	<b>541</b>
<b>15 Equine Ophthalmology</b>	<b>604</b>
<b>16 Food and Fiber Animal Ophthalmology</b>	<b>665</b>
<b>17 Exotic Animals: Ophthalmic Diseases and Surgery</b>	<b>716</b>
<b>Section 5 Ophthalmic and Systemic Diseases</b>	<b>761</b>
<b>18 Neuro-ophthalmology</b>	<b>763</b>
<b>19 Ocular Manifestations of Systemic Disease</b>	<b>784</b>
Section I: Dogs	784
Section II: Cats	812
Section III: Horses	831
Section IV: Food Animals	840
<b>Glossary</b>	<b>845</b>
<b>Appendix A Inherited Ophthalmic Diseases in the Dog</b>	<b>851</b>
<b>Appendix B Inherited Eye Diseases in the Cat</b>	<b>853</b>
<b>Appendix C Inherited Eye Diseases in the Horse</b>	<b>854</b>
<b>Appendix D Inherited Eye Diseases in Production Animals</b>	<b>855</b>
<b>Appendix E Lysosomal Storage Diseases in the Dog, Cat, and Food Animals</b>	<b>856</b>
<b>Index</b>	<b>858</b>