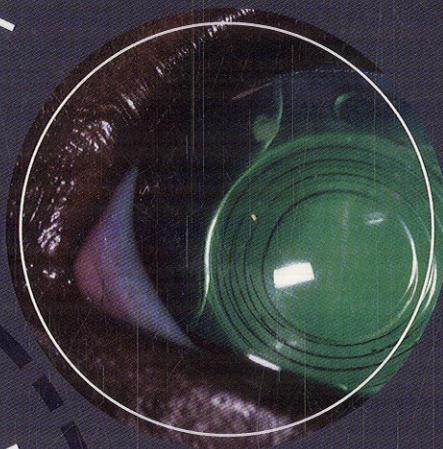


ESSENTIALS OF

Veterinary Ophthalmology

Kirk N. Gelatt



SECOND EDITION



WILEY-
BLACKWELL

CONTENTS

Preface	ix
Acknowledgments	xi

Chapter 1

Ophthalmic Examination and Diagnostics	3
Section 1: The Eye Examination and Diagnostic Procedures (Franck J. Ollivier, Caryn E. Plummer, and Kathleen P. Barrie)	3
Section 2: Ocular Imaging (Maria E. Källberg)	22
Section 3: Diagnostic Ultrasonography (Ursula M. Dietrich)	26
Section 4: Electrodiagnostic Evaluation of Vision (Björn Ekestén)	29

Chapter 2

Diseases and Surgery of the Canine Orbit (Bernhard M. Spiess)	35
---	----

Chapter 3

Diseases and Surgery of the Canine Eyelid (Frans C. Stades and Kirk N. Gelatt)	53
--	----

Chapter 4

Diseases and Surgery of the Canine Tear and Nasolacrimal Systems	79
Section 1: Diseases and Surgery of the Lacrimal Secretory System (Elizabeth A. Giuliano and Cecil P. Moore)	79

Section 2: Diseases and Surgery of the Nasolacrimal System (Bruce H. Grahn and Lynne S. Sandmeyer)	89
--	----

Chapter 5

Diseases and Surgery of the Canine Conjunctiva and Nictitating Membrane (Diane V. H. Hendrix)	97
---	----

Chapter 6

Diseases and Surgery of the Canine Cornea and Sclera (Brian C. Gilger with contributions by Franck J. Ollivier and Ellison Bentley)	119
---	-----

Chapter 7

The Canine Glaucomas (Kirk N. Gelatt, Dennis E. Brooks, and Maria E. Källberg)	155
--	-----

Chapter 8

Diseases and Surgery of the Canine Anterior Uvea (Diane V. H. Hendrix)	189
--	-----

Chapter 9

Diseases and Surgery of the Canine Lens	217
Section 1: Diseases of the Canine Lens and Cataract Formation (Michael G. Davidson and Susan R. Nelms)	217

Section 2: Surgery of the Canine Lens
(David A. Wilkie and Carmen M. H. Colitz) 234

Chapter 10

Diseases and Surgery of the Canine Posterior Segment 245
Section 1: Diseases and Surgery of the Canine Vitreous (Michael H. Boevé and Frans C. Stades) 245
Section 2: Diseases of the Canine Ocular Fundus (Kristina Narfström and Simon Petersen-Jones) 251
Section 3: Surgery of the Canine Posterior Segment (Samuel J. Vainisi, Joseph C. Wolfer, and Patricia J. Smith) 281
Section 4: Diseases and Surgery of the Canine Optic Nerve (Dennis E. Brooks) 284

Chapter 11

Feline Ophthalmology (Jean Stiles and Wendy M. Townsend) 293

Chapter 12

Equine Ophthalmology (Dennis E. Brooks and Andrew G. Matthews) 331

Chapter 13

Food and Fiber-Producing Animal Ophthalmology (Wendy M. Townsend) 379

Chapter 14

Laboratory and Exotic Animal Ophthalmology (from *Laboratory Animal Ophthalmology* by David L. Williams, and *Exotic Animal Ophthalmology* by Thomas J. Kern) 419

Chapter 15

Comparative Neuro-Ophthalmology (Merav H. Shamir and Ron Ofri) 445

Chapter 16

Ocular Manifestations of Systemic Disease (Cheryl L. Cullen and Aubrey A. Webb) 463
Section 1: The Dog 463
Section 2: The Cat 500
Section 3: The Horse 525
Section 4: Food Animals 535

Appendix A: Adrenergics in Veterinary Ophthalmology 551

Appendix B: Artificial Tear Substitutes for Veterinary Ophthalmology 553

Appendix C: Topical and Local Anesthetics for Veterinary Ophthalmology 555

Appendix D: Antibiotics for Veterinary Ophthalmology 557

Appendix E: Antiviral Drugs for Veterinary Ophthalmology (to Treat FHV-1 Ocular Infections) 559

Appendix F: Antifungals for Veterinary Ophthalmology 561

Appendix G: Carbonic Anhydrase Inhibitors (CAI) for the Dog 563

Appendix H: Corticosteroids in Veterinary Ophthalmology 565

Appendix I: Nonsteroidal Anti-inflammatory Drugs (NSAIDS) in Veterinary Ophthalmology 567

Appendix J: Hyperosmotics for Veterinary Ophthalmology 569

Appendix K: Miotics in the Dog and Cat 571

Appendix L: Available Mydriatics or Pupil Dilating Agents in Veterinary Ophthalmology 573

**Appendix M: Topical Prostaglandins for Veterinary Ophthalmology
(Information is for Dog Only)** 577

Appendix N: Other Ophthalmic Drugs 579

Appendix O: Inherited Eye Diseases in the Dog 581

Appendix P: Inherited Eye Diseases in the Cat 589

Appendix Q: Breed-Related Eye Disease in the Horse 591

Appendix R: Inherited Eye Diseases in Food Animals 593

Glossary 595

Index 601