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Nota di contenuto	Cover; Title page; Copyright page; Contents; Preface; Acknowledgments; About the Companion Website; Section 1: Basics for Clinical Veterinary Ophthalmology; Chapter 1: Development of the Eye; Gastrulation and Neurulation; Formation of the Optic Vesicle and Optic Cup; Lens Formation; Vascular Development; Development of the Cornea and Anterior Chamber; Development of the Iris, Ciliary Body, and Iridocorneal Angle; Retina and Optic Nerve Development; Sclera, Choroid, and Tapetum; Vitreous; Optic Nerve; Eyelids; Extraocular Muscles; Chapter 2: Ophthalmic Structures; Adnexa: Protective Apparatus OrbitOrbital Fascia; Extraocular Muscles and Fat; Upper and Lower Eyelids; Conjunctivae; Third Eyelid: Nictitating Membrane; Lacrimal and Nasolacrimal System; Globe; Components; Size, Shape, and Topography; Cornea; Anterior Epithelium; Stroma; Descemet's Membrane; Corneal Endothelium; Sclera; Uvea; Iris; Ciliary Body; Choroid; Lens; Lens Capsule; Anterior Epithelium; Lens Fibers; Zonular Attachment; Vitreous; Retina; Retinal Pigment Epithelium; Neurosensory Retina (Neuroretina); Retinal Vasculature; Optic Nerve; Vasculature of the Eye and Orbit; Chapter 3: Physiology of the Eye Anterior Segment of the EyeEyelids; Tear Production and Drainage; Cornea; Metabolism; Sensitivity; Drug Transport Through the Cornea, Limbus, Bulbar Conjunctiva, and Sclera; Iris and Pupil; Nutrition of Intraocular Tissues; Ocular Circulation; Ocular Blood Flow; Anterior

Uveal Blood Flow; Choroidal Blood Flow; Retinal Blood Flow; Blood Flow of the Optic Nerve Head; Ocular Barriers; Aqueous Humor and Intraocular Pressure; Aqueous Humor Formation; Aqueous Humor Outflow; Intraocular Pressure; Lens; Vitreous; Vitreal Structure and Aging; Vitreous Functions; Ocular Mobility
Chapter 4: Optics and Physiology of Vision Light and Vision; Refractive Structures of the Eye; Accommodation; Abnormal Refractive States and Optical Errors; Spherical and Chromatic Aberrations; Visual Processing: From Photoreceptors to Cortex; Retina; From Retina to Visual Cortex; Visual Cortex; Visual Perception; Light and Dark Adaptation; Flicker Detection; Binocular Vision and Depth Perception; Color Vision; Visual Acuity; Chapter 5: Ocular Pharmacology and Therapeutics; Drug Delivery and Pharmacokinetics; Barriers to Ocular Drug Delivery; Topical Administration
Drug Disposition after Eye Drop Application Systemic Absorption; Topical Drug Delivery to the Posterior Eye Segment; Drug Delivery Kinetics and Ocular Bioavailability; Periocular Administration; Intraocular Administration; Sustained Drug Delivery to Intraocular Tissues; Systemic Administration; Other Methods of Ocular Drug Delivery; Antimicrobial Agents; Antibacterial Agents; Antifungal Agents; Antiviral Agents; Anti-Inflammatory and Immunosuppressant Drugs; Anti-Inflammatory Agents; Nonsteroidal Anti-Inflammatory Drugs; Immunosuppressant Drugs
Mydriatics/Cycloplegics, Anesthetics, and Tear Substitutes and Stimulators

Sommario/riassunto

Essentials of Veterinary Ophthalmology, Third Edition offers an updated introduction to the diagnosis and clinical management of ocular conditions in veterinary patients, providing trusted information in a user-friendly format. The content of the book is distilled from the fifth edition of the gold-standard reference Veterinary Ophthalmology, emphasizing the information most relevant to veterinary students and general practitioners. Fully updated throughout, the Third Edition focuses more strongly on small animals and horses, with streamlined coverage of other species, and new chapters have
