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Infectious Diseases and Pathology of Reptiles, Second Edition provides definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious diseases affecting reptiles. It features stunning high-quality color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of infectious diseases of reptiles. Editor Elliott Jacobson draws on his own photography collection, and his wealth of experience spanning over 40 years in the research of infectious diseases and veterinary care of reptiles. Beginning with a thorough review of the biology, anatomy, and histology of reptiles, the introductory chapters cover all major systems and provide the most complete single source for color images of reptile histology. The book addresses the mechanism of reptile immunology and the response to pathogens, and explains how immunological response is key to differential diagnosis. It provides an overview of electron microscopy, complete with electron micrographs of reptile pathogens, and introduces the necessity of molecular methods for diagnosis. Finally, the book devotes several chapters to the viral, bacterial, fungal, and parasitic diseases known to reptiles and methods for isolating these pathogens. With up-to-the-minute data, a breath-taking array of images, and a panel of expert contributors, this new edition of Infectious Diseases and Pathology of Reptiles is the definitive resource for veterinary pathologists, zoo or wildlife veterinarians, and the increasing number of private practice veterinarians seeing reptiles kept as exotic pets. It will also be ideal reading for veterinary students specialising in exotics, candidates for ACZM accreditation, and private breeders and hobbyists. Already a comprehensive reference, a new volume covering non-infectious diseases of reptiles has now been added to create a two-volume set, Diseases and Pathology of Reptiles. This includes definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious and noninfectious diseases affecting reptiles. Pathology of Wildlife and Zoo Animals is a comprehensive resource that covers the pathology of wildlife and zoo

species, including a wide scope of animals, disease types and geographic regions. It is the definitive book for students, biologists, scientists, physicians, veterinary clinicians and pathologists working with non-domestic species in a variety of settings. General chapters include information on performing necropsies, proper techniques to meet the specialized needs of forensic cases, laboratory diagnostics, and an introduction into basic principles of comparative clinical pathology. The taxon-based chapters provide information about disease in related groups of animals and include descriptions of gross and histologic lesions, pathogenesis and diagnostics. For each group of animals, notable, unique gross and microscopic anatomical features are provided to further assist the reader in deciding whether differences from the domestic animal paradigm are "normal." Additional online content, which includes text, images, and whole scanned glass slides of selected conditions, expands the published material resulting in a comprehensive approach to the topic. Presents a single resource for performing necropsies on a variety of taxa, including terrestrial and aquatic vertebrates and invertebrates Describes notable, unique gross and microscopic anatomical variations among species/taxa to assist in understanding normal features, in particular those that can be mistaken as being abnormal Provides consistent organization of chapters with descriptions of unique anatomic features, common non-infectious and infectious diseases following brief overviews of the taxonomic group Contains full-color, high quality illustrations of diseases Links to a large online library of scanned slides related to topics in the book that illustrate important histologic findings A decade after publication of the first edition, Handbook of Venoms and Toxins of Reptiles responds to extensive changes in the field of toxinology to endure as the most comprehensive review of reptile venoms on the market. The six sections of this new edition, which has nearly doubled in size, complement the original handbook by presenting current information from many of the leading researchers and physicians in toxinology, with topics ranging from functional morphology, evolution and ecology to crystallography, -omics technologies, drug discovery and more. With the recent recognition by the World Health Organization of snakebite as a neglected tropical disease, the section on snakebite has been expanded and includes several chapters dealing with the problem broadly and with new technologies and the promises these new approaches may hold to counter the deleterious effects of envenomation. This greatly expanded handbook offers a unique resource for biologists, biochemists, toxicologists, physicians, clinicians,

and epidemiologists, as well as informed laypersons interested in the biology of venomous reptiles, the biochemistry and molecular biology of venoms, and the effects and treatment of human envenomation. A concise and practical quick reference guide to treating reptiles in first opinion veterinary practice *Reptile Medicine and Surgery in Clinical Practice* is the ideal guide for the busy veterinarian treating reptile cases. Designed as a quick reference guide, but with comprehensive coverage of all the topics needed for first opinion practice, the book presents the principles of reptile medicine and surgery. Richly illustrated chapters cover anatomy, physiology, behaviour, husbandry, reproduction, common diseases and disorders, and much more. Application in a clinical setting is emphasized throughout, including guidance on the physical examination, diagnostic testing and imaging, treatment options, and anaesthetic and surgical techniques. Practical quick-reference guide—ideal for the busy, first-opinion veterinary practitioner Richly illustrated in full colour throughout Edited by a team of highly experienced exotic animal veterinarians Useful reference for those studying for postgraduate certificates in exotic animal medicine With contributions from experts around the globe, *Reptile Medicine and Surgery in Clinical Practice* is a valuable reference offering a balanced international view of herpetological medicine. This revised, updated and expanded edition of Christine Hawkey's *A Colour Atlas of Comparative Veterinary Haematology* is bursting with high-quality images to aid identification of blood cells and haemoparasites in the different species commonly seen in private practice and zoological collections. It will assist veterinarians in the identification of normal and abnormal blood cells and in understanding the structural differences of blood cells between the various taxa within the Animal Kingdom. With the help of this guide, readers will be able to understand haemoresponses in the presence of specific and non-specific disease processes and identify haemoparasites commonly seen in blood films from wild and exotic animals. This impressively illustrated comparative haematology atlas is unrivalled in its scope, quality and accuracy. It is a must-have for veterinary students, veterinary surgeons working in general and referral veterinary clinical practices, clinicians working in zoological collections and specialists in exotic animal medicine. *Clinical Guide to Fish Medicine* Designed as a practical resource, *Clinical Guide to Fish Medicine* provides an evidence-based approach to the veterinary care of fish. This guide—written and edited by experts in the field—contains essential information on husbandry, diagnostics, and case management of bony and cartilaginous

fish. This important resource: Provides clinically relevant information on topics such as anatomy, water quality, life-support systems, nutrition, behavioral training, clinical examination, clinical pathology, diagnostic imaging, necropsy techniques, anesthesia and analgesia, surgery, medical treatment, and transport Describes common presenting problems of fish, including possible differentials and practical approaches Reviews key information on non-infectious and infectious diseases of fish in a concise format that is easily accessible in a clinical setting Written for veterinarians, biologists, technicians, specialists, and students, Clinical Guide to Fish Medicine offers a comprehensive review of veterinary medicine of fish. Venom research and technology has advanced greatly, rapidly transforming our knowledge of reptile venoms. Research advances, like the development of molecular systematics, provide the framework necessary to reconstruct the evolutionary history of glands and fangs. Such research developments have expanded our understanding of venom's evolution and its usefulness in therapeutic development. The results of this punctuated toxin molecular evolutionary expansion include protein neofunctionalization. While these changes may impact antivenom efficacy, this molecular diversity also facilitates their usefulness in the development of novel drug therapies. Venomous Reptiles And Their Toxins brings together the world's leading toxinologists in this comprehensive study of the entire scope of reptile venoms, from clinical effects to evolution to drug design and development. The book contains detailed applied chapters on clinical care of the envenomed patient, ineffective traditional or modern remedies, occupational considerations involved in the maintenance of institutional venomous reptile collections, veterinary care for venomous reptiles and research methods used in venom research. This book also devotes a chapter to each toxin class found in reptile venoms, detailing the full trajectory of research on the peptide or protein in question. These chapters discuss each toxin's respective role in the envenomation process through to how each has been explored for their biomedical potential. This book is a unique resource for anyone working with venomous reptiles. Medicine and Surgery of Tortoises and Turtles is an innovative and exciting new reference book on the management of chelonians. Covering everything from species identification to virus isolation techniques, it is an indispensable source of information for veterinary practitioners treating sick or injured chelonians and all those involved in captive chelonian care, chelonian conservation medicine, and scientific research. Written by leading chelonian veterinarians from around the world, this definitive book

includes: Detailed sections on anatomy, physiology, husbandry, nutrition, diagnosis, diseases, anaesthesia, surgery, therapeutics and conservation. Over 1000 full-colour photographs, which take the reader through disease recognition, practical nursing, captive husbandry and common surgical conditions. Down-to-earth clinical information presented in a user-friendly format. Medicine and Surgery of Tortoises and Turtles is both a step-by-step photographic guide and a detailed source of clinical and scientific data. As well as this, it contains fascinating material that has never been published before, ensuring that it will become the primary chelonian reference book. Now in full color throughout, Duncan and Prasse's Veterinary Laboratory Medicine: Clinical Pathology, Fifth Edition offers a comprehensive overview of hematology, hemostasis, clinical chemistry, urinalysis, cytology, and reference intervals in a highly accessible outline format. With information on all major domestic species, the text is designed for the reader to quickly find answers to clinical questions. Taking a problem-solving approach to the interpretation of laboratory data, this book includes clinical cases to illustrate the concepts of laboratory data interpretation, with tables and key words to aid readers in locating and applying information. The fifth edition has been fully revised to reflect the latest knowledge, diagnostic methods, and practices in veterinary laboratory medicine. A companion website provides the images in PowerPoint and references linked to PubMed at www.wiley.com/go/latimer. Duncan and Prasse's Veterinary Laboratory Medicine is an excellent quick reference for practicing veterinarians, veterinary students, clinical interns and residents, and pathology residents. As scientific analysis of testable hypotheses has replaced the speculative approach to study of bone disease in recent and fossil amphibians and reptiles, the field has advanced from simply reporting observations to analyzing their implications. This process is predicated upon a reproducible data base which explains/diagnoses the nature of bony alterations and a secure review of the literature. Thereby hangs the rub. The herpetological literature are difficult to access (let alone read) and are scattered through many prominent and eclectic journals and in the lay literature. While older diagnoses often have not stood the test of time, the clarity of report descriptions usually allows confident identification of the underlying pathology. This text provides a strong foundation for treating a variety of avian and exotic species. Key topics include normal and abnormal behavior and behavioral modification. Each chapter addresses normal behavior in captivity, medical implications of abnormal behavior, pain associated

behaviors, and how behavior relates to captivity. The book also includes client education handouts and suggested readings. Jetzt auch in englischer Sprache! Dieser Atlas ist eine bislang einmalige Zusammenstellung aller bildgebenden Verfahren für die drei großen „Heimtierklassen“ Vögel, Kleinsäuger und Reptilien. Separate Sektionen des Buches behandeln die drei Tierklassen, was ein schnelles und spezifisches Nachschlagen von Informationen und Bildreferenzen ermöglicht. Jede Sektion beginnt mit der anatomischen Darstellung der Körperregionen in den einzelnen Diagnostikverfahren. In einem zweiten Teil werden die häufigsten pathologischen Befunde nach den Organsystemen dargestellt und im Vergleich besprochen. Die vergleichende Darstellung ermöglicht die schnelle und richtige Diagnose mit dem adäquaten Diagnostikverfahren. Alle Röntgen-, Ultraschall-, CT- und MRT-Bilder sind eindeutig beschriftet. Mit rund 1500 Abbildungen ist dieser Atlas ein konkurrenzloses diagnostisches Archiv für die Heimtierpraxis. A Primer on Reptiles and Amphibians is an innovative educational resource designed to forge a connection between the reader and the creeping critters of the world. Turtles, frogs, lizards, salamanders, snakes, and crocodiles; these animals evoke fear and fascination. This primer dispels myths and unlocks mysteries surrounding these diverse survivors which have mastered virtually every habitat on Earth. Tragically, these animals now face pressures of unprecedented severity, but there is still time to make a difference if more of us work together. Micha Petty is an international award-winning Master Naturalist and wildlife rehabilitator. This critically-acclaimed debut volume is a collection of Micha's interpretive writings, carefully crafted to make learning easy for everyone. These bulletins display his passion for Conservation Through Education while covering topics such as living harmoniously with wildlife, physiology, natural history, observation, and conservation. Flip to any page to be instantly introduced to new facets of reptiles, amphibians, the perils they face, and how you can join the fight to save them. Far from the line drawings and black-and-white photos of the past, Infectious Diseases and Pathology of Reptiles features high-quality, color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of pathogens and diseases. Many of these images have never before been published, and come directly from Designed to be a concise, quick reference for veterinarians and anyone working with exotic animals, this portable formulary addresses common questions and medical situations encountered in clinical practice. Coverage of all drugs -- including

antimicrobial, antifungal, and antiparasitic agents -- provides appropriate dosage information and comments for all exotic species. This resource features extensive coverage of birds, as well as recommendations on therapies and diets in the appendices. Covers all exotic species in a quick-reference format. User-friendly layout is formatted in columns with the agent, dosage, and comments easy to locate on the page. Features an extensive section on birds, the most common of exotic pets. Detailed appendices include classification of select antimicrobials used in exotic animal medicine, therapies commonly used in exotic animals, and selected laboratories conducting avian and reptile diagnostic procedures Many new drugs have been added. All drug dosages have been re-checked to ensure accuracy. Twelve excellent contributing authors have joined this edition. Illustrated with over 1000 color images of the highest quality, Bovine Pathology: A Text and Color Atlas is a comprehensive single resource to identifying diseases in dairy cattle, feedlot cattle, and their calves. With summary text describing key features, the book correlates clinical information with pathology and differential diagnoses. The text covers naked-eye macroscopic appearance, through to microscopic pathology, and the immunohistochemistry of infectious agents and tumor markers. Structured by major organ system, the disease entries follow a consistent format and clarity of display. Serving as an essential reference work for veterinary pathologists who perform bovine necropsies, veterinary residents and students, the book is also practical enough for bovine practitioners who need to investigate sudden death losses of cattle on the farm. Pathology of Australian Native Wildlife brings together in one volume available information on the pathology of Australian native vertebrate wildlife, excluding fish. It provides rapid access to documented information on diseases in Australian wildlife, domiciled either in Australia or overseas. The book comprises 45 chapters, each detailing pathological changes caused by specific pathogens including viruses, bacteria, fungi, protozoa, helminths and ectoparasites, and other injurious agents and conditions such as toxins and neoplasia affecting terrestrial and marine mammals, birds, reptiles and amphibians. Although the aim is to describe morphological (gross and microscopic) changes, the author also indicates history and clinical signs, thus providing guidance as to which lesions should be specifically searched for, and what ancillary testing might be needed to confirm a diagnosis. Illustrated throughout with colour photographs, this will be the essential reference for veterinary pathologists and clinicians, as well as wildlife researchers, zoos, wildlife parks,

environmentalists, conservationists and students. Awarded a 2010 Whitley Certificate of Commendation for Zoological Resource. This book accompanies Infectious Diseases and Pathology of Reptiles, Second Edition to cover noninfectious diseases of reptiles, meeting the need for a similar, authoritative single-source reference. The volume features color photos of normal anatomy and histology, as well as gross, light, and electron microscopic imagery of diseases. Subjects range from neoplasia, nutrition and metabolic disease, and deposition disorders to developmental anomalies, trauma and physical diseases, and the unique contribution of paleopathology and diseases of bone. Each chapter is supported by numerous figures, many of which are unique and cannot be found in the published literature. Readers will note that some of the chapters are based on organ system, a trend that will continue into the next edition to encompass all of the basic organ systems. This book holds the most information ever accrued into one publication on noninfectious diseases and pathology of this class of animals, providing information on every aspect of the anatomy, pathophysiology, and differential diagnosis. With up-to-the-minute data, a never-before-seen collection of images, and a stellar panel of contributors, Noninfectious Diseases and Pathology of Reptiles is the definitive resource for veterinarians, biologists, and researchers involved in the study of reptile diseases. Pathology of Pet and Aviary Birds, Second Edition provides a comprehensive reference to the gross and histologic features of diseases seen in pet and aviary birds, with more than 850 images depicting disease lesions. • Provides a complete resource for identifying both common and not-so-common diseases in a wide range of avian species • Includes more than 850 full-color images to show disease lesions • Offers context for the interpretation of pathologic findings, promoting an understanding of the pathogenesis and epizootiology of disease • Adds information on pigeons and chickens, pathophysiology, prognosis and trends, and globally relevant diseases • Aids pathologists, diagnosticians, and avian veterinarians in identifying lesions in pet birds This book accompanies Infectious Diseases and Pathology of Reptiles, Second Edition to cover noninfectious diseases of reptiles, meeting the need for a similar, authoritative single-source reference. The volume features color photos of normal anatomy and histology, as well as gross, light, and electron microscopic imagery of diseases. Subjects range from neoplasia, nutrition, and metabolic disease, and deposition disorders to developmental anomalies, trauma, and physical diseases, and the unique contribution of paleopathology and

diseases of bone. Each chapter is supported by numerous figures, many of which are unique and cannot be found in the published literature. Readers will note that some of the chapters are based on organ system, a trend that will continue into the next edition to encompass all of the basic organ systems. This book holds the most information ever accrued into one publication on noninfectious diseases and pathology of this class of animals, providing information on every aspect of the anatomy, pathophysiology, and differential diagnosis. With up-to-the-minute data, a never-before-seen collection of images, and a stellar panel of contributors, *Noninfectious Diseases and Pathology of Reptiles* is the definitive resource for veterinarians, biologists, and researchers involved in the study of reptile diseases. Logically organized by taxonomic groups, this up-to-date text covers the diagnosis and treatment of all zoo animal species and free-ranging wildlife, including amphibians, reptiles, birds, mammals, and fish, unlikely to be seen by private practice veterinarians. Featuring full-color images, the consistent, user-friendly format supplies information on each animal's biology, unique anatomy, special physiology, reproduction, restraint and handling, housing requirements, nutrition and feeding, surgery and anesthesia, diagnostics, therapeutics, and diseases. Global authorship includes multinational contributors who offer expert information on different species from around the world. "Veterinary care of non-traditional species is a rapidly progressing field and this title is the much awaited updated version of this zoo and wildlife practitioner's 'bible'. Reviewed by: Charlotte Day on behalf of *The Veterinary Record*, Oct 14

Global authorship includes internationally recognized authors who have contributed new chapters focusing on the latest research and clinical management of captive and free-ranging wild animals from around the world. Zoological Information Management System chapter offers the latest update on this brand new system that contains a worldwide wealth of information. General taxonomy-based format provides a comprehensive text for sharing information in zoo and wildlife medicine. Concise tables provide quick reference to key points in the references. NEW! All new authors have completely revised the content to provide fresh perspectives from leading experts in the field on the latest advances in zoo and wild animal medicine. NEW! Color images vividly depict external clinical signs for more accurate recognition and diagnosis. This book includes all 14 articles contributed to the Special Issue "Systematics and Conservation of Neotropical Amphibians and Reptiles" in the journal *Diversity*, originally published in 2019 and 2020. Known as "the bible" of herpetological

medicine and surgery, Mader's Reptile and Amphibian Medicine and Surgery, 3rd Edition edited by Stephen Divers and Scott Stahl provides a complete veterinary reference for reptiles and amphibians, including specific sections on practice management and development; taxonomy, anatomy, physiology, behavior, stress and welfare; captive husbandry and management including nutrition, heating and lighting; infectious diseases and laboratory sciences; clinical techniques and procedures; sedation, anesthesia and analgesia; diagnostic imaging; endoscopy; medicine; surgery; therapy; differential diagnoses by clinical signs; specific disease/condition summaries; population health and public health; and legal topics. Well-organized and concise, this new edition covers just about everything related to reptiles and amphibians by utilizing an international array of contributing authors that were selected based on their recognized specialization and expertise, bringing a truly global perspective to this essential text! This book offers a state-of-the-art, evidence-based reference to all aspects of veterinary cytology. Truly multidisciplinary in its approach, chapters are written by experts in fields ranging from clinical pathology to internal medicine, surgery, ophthalmology, and dermatology, drawing the various specialties together to create a comprehensive picture of cytology's role in diagnosis and treatment of animal disease. Firmly grounded in the primary literature, the book focuses on companion animals, with special chapters for species with fewer publications. Chapters are logically organized by body system, with additional chapters on tumors of particular import and diagnostic decision making. The first two sections of Veterinary Cytology focus on cytology techniques, quality control, and special laboratory techniques. Subsequent sections are organ/tissue-based and reflect what is known about the canine, feline, and equine species. This is followed by chapters on non-traditional species, including exotic companion mammals, rabbits, cattle, camelids, non-human primates, reptiles and birds, amphibians, fish, invertebrates, and sheep and goats. The last section highlights some unique features of the applications of cytology in industry settings. Provides a gold-standard reference to data-driven information about cytologic analysis in companion animal species Brings together authors from a wide range of specialties to present a thorough survey of cytology's use in veterinary medicine Offers broader species coverage and greater depth than any cytology reference currently available Veterinary Cytology is an essential resource for clinical and anatomic pathologists and any specialist in areas using cytology, including veterinary oncologists, criticalists, surgeons, ophthalmologists,

dermatologists, and internists. For millions of years reptiles have walked, crawled, and slithered over the face of our Earth. From the mighty dinosaurs who dominated the land, the pterosaurs who took to the air, and the marine adapted ichthyosaurs, to the living reptiles today such as the lizards, snakes, crocodiles, and turtles, plus the single species of tuatara in New Zealand, reptiles have come in all shapes and sizes. In this Very Short Introduction Tom Kemp discusses the adaptations reptiles made to first leave the sea and colonise the land in dry conditions, such as their waterproof skin, their ability to expel almost dry waste products, their efficient use of external heat for maintaining their body temperature, and the amniotic egg that is laid and develops on dry land. Considering the different living groups of reptiles today, Kemp then describes how their respective bodies are adapted for their different ways of life, from snake feeding patterns to the way crocodiles breathe. Finally, Kemp assesses the threat of extinction to reptile species due to over-exploitation, habitat destruction, and climate change, and considers what can be done. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable. This two-volume set represents a second edition of the original Infectious Diseases and Pathology of Reptiles alongside a new book that covers noninfectious diseases of reptiles. Together, these meet the need for an entirely comprehensive, authoritative single-source reference. The volumes feature color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of infectious and noninfectious diseases of reptiles. The most detailed and highly illustrated reference on the market, this two-volume set includes definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious and noninfectious diseases affecting reptiles. This is the long-awaited revision and expansion of Avian Hematology and Cytology, 2nd Edition. This new book builds on the avian foundation of Campbell's earlier work and has grown to include coverage of several other important exotic animal groups including small mammals, reptiles, fish, and amphibians. This is the must-have hematologic and cytologic reference for all veterinarians and researchers working with avian and exotic animals. Exotic Animal Emergency and Critical Care Medicine delivers the most relevant and current information required by general

veterinary practitioners and veterinary specialists in treating emergent and critical exotic patients. Covering the management of common emergency presentations in exotic companion mammals, birds, reptiles, and amphibians, each section discusses triage and stabilization, diagnostics, nutrition and fluid therapy, analgesia, anesthesia, monitoring, CPR, and euthanasia. The book includes quick reference tables, species-specific drug formularies, and illustrations of exotic animal emergency procedures and techniques. The information contained within is based on an extensive review of the most current literature and the combined knowledge and expertise of international leaders in the field of exotic animal medicine and surgery. A one-stop resource like no other, Exotic Animal Emergency and Critical Care Medicine makes it easy to find the information needed to effectively treat urgent and life-threatening conditions in pet exotic animals. The book covers a wide range of species, encompassing: Exotic companion mammals, including ferrets, rabbits, guinea pigs, chinchillas, rats, mice, hamsters, gerbils, hedgehogs, and sugar gliders Birds, including psittacines, passerines, doves and pigeons, as well as backyard poultry and waterfowl Reptiles, including turtles and tortoises, snakes and lizards Amphibians Equally useful for general practitioners, specialists in emergency and critical care and exotic animal medicine, veterinary students, and trainees, Exotic Animal Emergency and Critical Care Medicine is an essential resource for the emergent and critical care of exotic animals. BLACKWELL'S FIVE-MINUTE VETERINARY CONSULT REPTILE AND AMPHIBIAN STAY UP TO DATE ON THE BEST PRACTICES FOR TREATING COMMON DISEASES IN REPTILES AND AMPHIBIANS Blackwell's Five-Minute Veterinary Consult: Reptile and Amphibian delivers a comprehensive exploration of the treatment of the most common diseases and disorders in reptiles and amphibians. The book is organized for quick and easy access to information, acting as an indispensable resource for veterinarians engaged in the care of chelonians, lizards, snakes, crocodylians, and amphibians. The book offers readers guidance from leading international voices in the field of reptile and amphibian care, packaged in a perfect clinical manual. Diagnostic and treatment information is laid out in a logical, stepwise fashion. Readers will also enjoy access to a companion website that provides users with printable history and physical exam forms, images that illustrate venipuncture and intravenous catheterization techniques in various amphibian and reptile groups, and images that illustrate methods of sexing reptiles. The ideal practical manual for veterinary practitioners and students seeking accessible and

authoritative information on reptiles and amphibians, the book also offers: The treatment of common diseases and disorders in chelonians, including upper respiratory tract disease, cloacal prolapse, aural abscesses, and shell rot The treatment of common diseases in lizards, including hypovitaminosis A, nutritional secondary hyperparathyroidism, cryptosporidiosis, abscesses, and fungal infections The treatment of diseases affecting snakes, including dysecdysis, lower respiratory tract disease, inclusion body disease, stomatitis, and paramyxovirus A comprehensive exploration of the treatment of diseases affecting crocodilians, including West Nile virus, chlamydiosis, trauma, abscesses, and gout Blackwell's Five-Minute Veterinary Consult: Reptile and Amphibian is an indispensable reference for veterinary practitioners, students, residents, and interns who wish to improve their understanding and care of chelonians, lizards, snakes, crocodilians, and amphibians. Part of the popular SECRETS SERIES®, this all-new text provides essential, practical information for reviewing pathology commonly encountered in clinical situations. Organized by disorder type, it features numerous photos, a popular question-and-answer format, and a detailed index that makes it easy to find information quickly. In more than 50 chapters, expert contributors propose key questions and provide authoritative answers addressing the situations that confront small animal veterinarians every day. Comprehensive coverage of pathology is offered by a team of nationally recognized veterinary pathology experts. All of the most important "need to know" questions and answers are provided in the proven format of the acclaimed Secrets Series. More than 150 superior-quality photos highlight key concepts. A thorough, highly detailed index provides quick and easy access to specific topics. Exotic Animal Hematology and Cytology, Fourth Edition updates the most comprehensive reference available on exotic animal hematology and cytology of all major species. Acts as both an atlas and a text, offering high-quality photographs and step-by-step descriptions of techniques associated with preparing and interpreting hematology and cytology samples Presents complete information on hematology and cytology in a wide range of exotic species, including small mammals, birds, reptiles, amphibians, and fish Includes more than 700 high-quality color photographs, now with sizing bars Takes a new disease-based structure for improved ease of use Provides straightforward step-by-step descriptions of sample preparation and interpretation This outstanding clinical reference provides valuable insights into solving clinical dilemmas, formulating diagnoses, developing

therapeutic plans, and verifying drug dosages for both reptiles and amphibians. The information is outlined in an easy-to-use format for quick access that is essential for emergency and clinical situations. Discusses veterinary medicine and surgery for both reptiles and amphibians Features complete biology of snakes, lizards, turtles, and crocodylians Provides step-by-step guidelines for performing special techniques and procedures such as anesthesia, clinical pathology, diagnostic imaging, euthanasia and necropsy, fracture management, soft tissue surgery, and therapeutics Covers specific diseases and conditions such as anorexia, aural abscesses, and digit abnormalities in a separate alphabetically organized section 53 expert authors contribute crucial information to the study of reptiles and offer their unique perspectives on particular areas of study The expansive appendix includes a reptile and amphibian formulary A new full-color format features a wealth of vivid images and features that highlight important concepts and bring key procedures to life 29 new chapters covering diverse topics such as stress in captive reptiles, emergency and critical care, ultrasound, endoscopy, and working with venomous species Many new expert contributors that share valuable knowledge and insights from their experiences in practicing reptile medicine and surgery Unique coverage of cutting-edge imaging techniques, including CT and MRI This is the first book on ranaviruses. Ranaviruses are double-stranded DNA viruses that cause hemorrhagic disease in amphibians, reptiles, and fish. They have caused mass die-offs of ectothermic vertebrates in wild and captive populations around the globe. There is evidence that this pathogen is emerging and responsible for population declines in certain locations. Considering that amphibians and freshwater turtles are suitable hosts and the most imperiled vertebrate taxa in the world, ranaviruses can have significant impacts on biodiversity and ecosystem function. Additionally, many fish that are raised in aquaculture facilities and traded internationally are suitable hosts; thus, the potential economic impact of ranaviruses is significant. Ranaviruses also serve as a model for replication and gene function of large double-stranded DNA viruses. There is an urgent need to assemble the contemporary information on ranaviruses and provide guidance on how to assess their threats in populations. Through the Global Ranavirus Consortium, 24 experts from six countries were organized to write this volume, the first book on ranaviruses. The book begins with a discussion on the global extent of ranaviruses, case histories of infection and disease in ectothermic vertebrates, and current phylogeny. Basic principles of ranavirus ecology and evolution are covered next, with a

focus on host-pathogen interactions and how the virus emerges in its environment. There are two chapters that will discuss the molecular biology of ranaviruses, host response to infection, and the genes responsible for immune system evasion. One chapter establishes standards for testing for infection and diagnosing ranaviral disease. The book ends by providing guidance on how to design ranavirus surveillance studies and analyze data to determine risk, and discussing the role of the Global Ranavirus Consortium in organizing research and outreach activities. Infectious Diseases and Pathology of Reptiles, Second Edition provides definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious diseases affecting reptiles. It features stunning high-quality color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of infectious diseases of reptiles. Editor Elliott Jacobson draws on his own photography collection, and his wealth of experience spanning over 40 years in the research of infectious diseases and veterinary care of reptiles. Already a comprehensive reference, a new volume covering noninfectious diseases of reptiles has now been added to create a two-volume set, Diseases and Pathology of Reptiles. Beginning with a thorough review of the biology, anatomy, and histology of reptiles, Volume 1 covers all major systems and provides the most complete single source for color images of reptile histology, hematology, and cytology. Volume 1 addresses the mechanism of reptile immunology and the response to pathogens, and explains how immunological response is key to differential diagnosis. It provides an overview of electron microscopy, complete with electron micrographs of reptile pathogens, and introduces the necessity of molecular methods for diagnosis. Finally, this volume devotes several chapters to the viral, bacterial, fungal, and parasitic diseases known to reptiles, and methods for isolating these pathogens. With up-to-the-minute data, an array of sharp and high-quality images, and a panel of expert contributors, this new edition of Infectious Diseases and Pathology of Reptiles is the definitive resource for veterinary pathologists, zoo or wildlife veterinarians, and the increasing number of private practice veterinarians seeing reptiles kept as exotic pets. It is also ideal reading for veterinary students specializing in exotics, candidates for ACZM accreditation, and private breeders and hobbyists. This two-volume set represents a second edition of the original Infectious Diseases and Pathology of Reptiles alongside a new book that covers noninfectious diseases of reptiles. Together, these meet the need for an entirely

comprehensive, authoritative single-source reference. The volumes feature color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of infectious and noninfectious diseases of reptiles. The most detailed and highly-illustrated reference on the market, this two-volume set includes definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious and noninfectious diseases affecting reptiles. Every researcher or diagnostician working with reptiles has faced the challenge of identifying reptile hemoparasites and then determining whether they are of importance or merely incidental. Another challenge is how to easily find the information required to make the proper identification. A distillation of knowledge from world-renowned expert Sam R. Telford, Jr, Hemoparasites of the Reptilia: Color Atlas and Text provides a comprehensive compilation of information on how to differentiate between the myriad species of reptile hemoparasites. The atlas provides diagnoses for 262 species of plasmodiids, hemogregarines, hemococcidians, trypanosomes, and leishmanias, including descriptions of eight new species or new taxonomic designations. It also discusses lesser known groups, such as piroplasms, rickettsiae, chlamydia, and erythrocytic viruses. Each genus and many species are represented among the 166 taxa illustrated in color. The species accounts contain host and geographic distribution, with precise localities when possible, prevalence, life cycles and vectors when known, effects upon the host, and ecology of the host-parasite relationship, morphological variation, and an exhaustive bibliography. The book also includes an illustrated key showing diagnostic characters. Telford draws on his 45 years of experience and his personal collection, considered the world's most complete, to provide information on the morphology of the unicellular parasites of reptilian blood. He includes information from hard-to-find original papers and articles from sources throughout the world. The illustrated key and photomicrographs from Telford's collection make identifying species quicker and easier. This quick reference handbook covers the diagnosis and treatment of eye disease in a range of exotic companion animal species, including rabbits, rodents, reptiles, birds, amphibians and fish. It clarifies when extrapolation from cat or dog eyes is appropriate, or when new information is needed to ensure that diagnoses and treatments are appropriate for the particular species. Writing in an accessible and down to earth style, the author brings a wealth of personal experience to this specialised subject area. The book contains many ophthalmic photographs of both anatomy in normal eyes and pathology in

abnormal cases. It also includes a separate chapter on the common ophthalmic features of exotic pets, discussing what can be learnt from cross-species comparison and another chapter giving a brief history of comparative ophthalmology. Ophthalmology of Exotic Pets is an invaluable aid for veterinary practitioners and students with an interest in exotic pet species, as well as for veterinary ophthalmologists. KEY FEATURES

Covers lagomorphs, rodents, reptiles, birds, amphibians and fish Offers clear guidance for species-specific treatment Facilitates extrapolations from the cat or dog to the exotic eye Written in a concise quick reference format Highly illustrated with colour photographs Infectious Diseases and Pathology of Reptiles, Second Edition provides definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious diseases affecting reptiles. It features stunning high-quality color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of infectious diseases of reptiles. Editor Elliott Jacobson draws on his own photography collection, and his wealth of experience spanning over 40 years in the research of infectious diseases and veterinary care of reptiles. Already a comprehensive reference, a new volume covering noninfectious diseases of reptiles has now been added to create a two-volume set, Diseases and Pathology of Reptiles. Beginning with a thorough review of the biology, anatomy, and histology of reptiles, Volume 1 covers all major systems and provides the most complete single source for color images of reptile histology, hematology, and cytology. Volume 1 addresses the mechanism of reptile immunology and the response to pathogens, and explains how immunological response is key to differential diagnosis. It provides an overview of electron microscopy, complete with electron micrographs of reptile pathogens, and introduces the necessity of molecular methods for diagnosis. Finally, this volume devotes several chapters to the viral, bacterial, fungal, and parasitic diseases known to reptiles, and methods for isolating these pathogens. With up-to-the-minute data, an array of sharp and high-quality images, and a panel of expert contributors, this new edition of Infectious Diseases and Pathology of Reptiles is the definitive resource for veterinary pathologists, zoo or wildlife veterinarians, and the increasing number of private practice veterinarians seeing reptiles kept as exotic pets. It is also ideal reading for veterinary students specializing in exotics, candidates for ACZM accreditation, and private breeders and hobbyists. This book accompanies Infectious Diseases and Pathology of Reptiles, Second Edition to cover noninfectious diseases of reptiles, meeting the need for a similar,

authoritative single-source reference. The volume features color photos of normal anatomy and histology, as well as gross, light, and electron microscopic imagery of diseases. Subjects range from neoplasia, nutrition, and metabolic disease, and deposition disorders to developmental anomalies, trauma, and physical diseases, and the unique contribution of paleopathology and diseases of bone. Each chapter is supported by numerous figures, many of which are unique and cannot be found in the published literature. Readers will note that some of the chapters are based on organ system, a trend that will continue into the next edition to encompass all of the basic organ systems. This book holds the most information ever accrued into one publication on noninfectious diseases and pathology of this class of animals, providing information on every aspect of the anatomy, pathophysiology, and differential diagnosis. With up-to-the-minute data, a never-before-seen collection of images, and a stellar panel of contributors, Noninfectious Diseases and Pathology of Reptiles is the definitive resource for veterinarians, biologists, and researchers involved in the study of reptile diseases.

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