

Wild Mammals In Captivity Principles And Techniques For Zoo Management Second Edition

Environmental Enrichment for Captive Animals Zoo Animals Zoo and Wild Mammal Formulary Salmonella Diagnosis and Control of Johne's Disease Zookeeping Towards a sustainable, participatory and inclusive wild meat sector Medicine of Australian Mammals Zoo Animal Welfare The Biology of Animal Stress Second Nature Equivalence Checking of Digital Circuits Wild Animals in Captivity Environmental Enrichment for Nonhuman Primates Resource Guide, January 1992-February 1999 The Sandcastle Girls Green Technologies to Improve the Environment on Earth Wildlife Feeding and Nutrition Wildlife Forensic Investigation An Introduction to Zoo Biology and Management Scientific Foundations of Zoos and Aquariums Theriogenology Zoo Animals Zoo Conservation Biology Guidelines for the Humane Transportation of Research Animals Final Report on Environment Enhancement to Promote the Psychological Well-being of Nonhuman Primates Wild Mammals in Captivity The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals The North American Model of Wildlife Conservation Pathology of Wildlife and Zoo Animals American Zoo In Defense of Dolphins Global Exposition of Wildlife Management The Laws Protecting Animals and Ecosystems Zoo and Wild Animal Dentistry Updates on Brucellosis Building a Future for Wildlife The Psychological Well-Being of Nonhuman Primates Savages and Beasts Wild Mammals in Captivity Principles and Applications of Domestic Animal Behavior

Environmental Enrichment for Captive Animals

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Zoo Animals

In order to understand and manage animals in their natural or captive environments we must first understand why animals do what they do and recognize limitations in their ability to adapt to different environments. Drawing on the author's considerable experience in both teaching and research, this introductory-level textbook describes the basic principles underlying animal behavior and how those concepts can be used in managing the care of domestic and captive wild animals, covering four key themes: development of behavior, biological rhythms, social behavior and behavioral aspects of animal management. Extensively illustrated with many practical examples and over 150 photos and figures, the book will be essential reading for animal science and veterinary students.

Zoo and Wild Mammal Formulary

Johne's Disease is a chronic, progressive intestinal disease caused by infection with *Mycobacterium avium* subspecies *paratuberculosis* (Map) that affects primarily ruminant animals. In recent decades there has been growing concern over the lack of effective control of this disease and questions have arisen regarding the possibility that Map infection could be a cause of some cases of Crohn's disease in humans. This report presents a broad outline of the steps

that should be taken to control Johne's disease, reduce the spread of Map, and minimize effects of the disease in animals. The report also describes the weaknesses of our current research agenda and provides recommendations for a new research strategy to resolve the question of whether there is a link between Johne's and Crohn's diseases.

Salmonella

The book, *Global Exposition of Wildlife Management*, covers five research topics connected to wildlife management. From conservation and domestication of species from the wild, the socioeconomic importance of wildlife to Tuberculosis within wildlife species as an emerging health threat for both wildlife and humans. Topics presented also discuss bush-meat utilization and its impact on biodiversity conservation, community forestry management and its role in biodiversity conservation, food and feeding ecology, urban forestry, and integrated island management for ecologically sensitive areas. This book also presents wildlife conservation research using a public aquarium as a case study. Each chapter gives special reference to the prevailing problems in wildlife conservation and hopes to provide possible solutions.

Diagnosis and Control of Johne's Disease

The keeping of zoo animals is a central tool in the conservation of some of the world's most fascinating, yet threatened, species. But how do zoos operate on a day-to-day basis? What are the key challenges they face in trying to feed, manage, and keep healthy the animals in their care? How can they play their part in conserving biodiversity? *Zoo Animals: Behaviour, Management and Welfare* addresses the key questions surrounding the keeping of exotic animals in captivity, and reveals how we can apply our ever-growing understanding of animal behaviour and use an evidence based approach to ensure zoo animals are managed as effectively as possible. Drawing on their extensive experience of zoo research, practice, and teaching, the authors blend together theory with a broad range of both mammalian and non-mammalian examples to give a highly-readable overview of this burgeoning field. *Zoo Animals: Behaviour, Management, and Welfare* is the ideal resource for anyone needing a thorough grounding in this subject, whether as a student or as a zoo professional. Online Resource Centre The Online Resource Centre to accompany *Zoo Animals* features: For all readers: - Updates - surveys of key developments in the field - Multiple choice questions with instant feedback, to aid self-assessment For registered adopters of the book: - Figures from the book in electronic format and full colour, available for download

Zookeeping

The meat of wild species, referred to in this report as 'wild meat', is an essential source of protein and a generator of income for millions of forest-living communities in tropical and subtropical regions. However, unsustainable harvest rates currently

Towards a sustainable, participatory and inclusive wild meat sector

Wildlife forensics is the application of forensic science to the conservation and protection of non-domesticated animals, both in the wild and in captivity. Providing an in-depth introduction to this rapidly evolving field, *Wildlife Forensic Investigation: Principles and Practice* also chronicles aspects of the history of management, conservation, and environmental protection, with an emphasis on their global importance in the twenty-first century. The book examines the crucial role of wildlife forensic investigation with regard to live animals, dead animals and samples and covers national, regional, and international legislation. While the text particularly focuses on forensic science as it relates to wild animals, it also includes mention of plants and habitats because of their relevance to conservation. The book discusses animal welfare as well as the damage that can be inflicted on humans and property by wildlife. Offering access to sound evidence based on good science and obtained using the best available practices, the book is enhanced by case studies from experts who describe some of their own work. This resource is essential for those involved in a range of endeavours, including investigating wildlife crime, identifying animal remains, ascertaining the circumstances of death of wild species, and other legal proceedings and activities concerning wildlife. The forensic skills described in this book can be applied to a wide range of activities (not necessarily involving the legal process), including environmental impact assessments, insurance claims, governmental and other enquiries, checking of trading standards and the inspection of (for instance) pet-shops, animal boarding establishments, and zoological collections. The authors point out that one of the most important requirements of those persons involved in wildlife forensic work is to retain an open mind. Such personnel should also be conscious of new developments and evolving techniques and be able to anticipate situations where their investigative and scientific skills might be used to advantage—so-called "horizon scanning". Examples of these are given.

Medicine of Australian Mammals

Zoo Animal Welfare

Have humans been sharing the planet with other intelligent life for millions of years without realizing it? In *Defense of Dolphins* combines accessible science and philosophy, surveying the latest research on dolphin intelligence and social behavior, to advocate for their ethical treatment. Encourages a reassessment of the human-dolphin relationship, arguing for an end to the inhuman treatment of dolphins. Written by an expert philosopher with almost twenty-years of experience studying dolphins. Combines up-to-date research supporting the sophisticated cognitive and emotional capacities of dolphins with entertaining first-hand accounts. Looks at the serious questions of intelligent life, ethical treatment, and moral obligation. Engaging and thought-provoking.

The Biology of Animal Stress

The keeping of zoo animals has become a central tool in the conservation of some of the world's most fascinating, yet threatened, species. But how do zoos operate on a day-to-day basis? What are the key problems zoos face in trying to feed, breed and keep healthy the animals in their care? How do they play their part in conserving biodiversity? *Zoo Animals: Behaviour, Management and Welfare* addresses the key questions surrounding the keeping of zoo animals, and reveals how we can apply our ever-growing understanding of animal behaviour to ensure zoo animals are managed as effectively as possible. Drawing on their extensive experience of zoo research, practice, and teaching, the authors blend together theory with a broad range of both mammalian

and non-mammalian examples to give a highly-readable overview of this burgeoning field. Zoo Animals: Behaviour, Management, and Welfare is the ideal resource for anyone needing a thorough grounding in this subject, whether as a student or as a zoo professional. Online Resource Centre The Online Resource Centre features: For lecturers: - Figures from the book in electronic format, for use in lecture slides For students: - Tasks, and associated datasets, for use with Zootrition and/or related software - Annotated web link library - Legislation information: summary information, and related web links, regarding zoo-related legislation in countries other than the UK - Latest news: summaries of latest developments in the field, with links to relevant literature

Second Nature

Theriogenology, the field that studies animal reproductive health and disease, is a challenging field that shows a steady growth. It covers diverse aspects of reproduction in domestic and wild animals, including the assisted reproductive techniques, which have enormously enhanced the ability to rescue endangered species and provide a strong support to the high reproductive efficiency requested by livestock production. Reproductive success, as well as infertility, is the culmination of complex physiological and adaptive processes that guarantee, at the end, a species' ability to reproduce and its survival in a challenging and ever-changing environment. In this book, we present to you a collection of manuscripts exploring various aspects of the reproductive function of mammal and marine species. I hope you find this a useful book in your collection.

Equivalence Checking of Digital Circuits

As species extinction, environmental protection, animal rights, and workplace safety issues come to the fore, zoos and aquariums need keepers who have the technical expertise and scientific knowledge to keep animals healthy, educate the public, and create regional, national, and global conservation and management communities. This textbook offers a comprehensive and practical overview of the profession geared toward new animal keepers and anyone who needs a foundational account of the topics most important to the day-to-day care of zoo and aquarium animals. The three editors, all experienced in zoo animal care and management, have put together a cohesive and broad-ranging book that tackles each of its subjects carefully and thoroughly. The contributions cover professional zookeeping, evolution of zoos, workplace safety, animal management, taxon-specific animal husbandry, animal behavior, veterinary care, public education and outreach, and conservation science. Using the newest techniques and research gathered from around the world, Zookeeping is a progressive textbook that seeks to promote consistency and the highest standards within global zoo and aquarium operations.

Wild Animals in Captivity

"The aim of this book is to produce an introductory text on the laws regulating the treatment of farm and companion animals, and those which protect wildlife and ecosystems"--

Environmental Enrichment for Nonhuman Primates Resource Guide, January 1992-February 1999

Rothfels provides both fascinating reading and much-needed historical perspective on the nature of our relationship with the animal kingdom.

The Sandcastle Girls

Wildlife Feeding and Nutrition fills a serious gap in the wildlife and animal nutrition literature by providing a discussion of the basic principles of nutrition and their application to the broader field of wildlife ecology. This book is based on lectures presented in an upper-level wildlife nutrition course taught at Washington State University. The book opens with an introductory chapter on wildlife nutrition. This is followed by separate chapters on general nutrient and energy requirements; protein, water, vitamin, and mineral requirements; impact of nutrition on reproductive characteristics; gastrointestinal anatomy and function; and digestion and nutrient metabolism. The text will be invaluable to wildlife biologists, to those who are interested in captive animal nutrition and management, and to those who are interested in improving the feed supply and nutrition of free-ranging wildlife. It should also be helpful to undergraduate and graduate students as well as teachers of biology and wildlife management. The book will be a useful reference for all who are interested and concerned with wildlife throughout the world.

Green Technologies to Improve the Environment on Earth

This book is intended as an introductory text for students studying a wide range of courses concerned with animal management, zoo biology and wildlife conservation, and should also be useful to zookeepers and other zoo professionals. It is divided into three parts. Part 1 considers the function of zoos, their history, how zoos are managed, ethics, zoo legislation and wildlife conservation law. Part 2 discusses the design of zoos and zoo exhibits, animal nutrition, reproduction, animal behaviour (including enrichment and training), animal welfare, veterinary care, animal handling and transportation. Finally, Part 3 discusses captive breeding programmes, genetics, population biology, record keeping, and the educational role of zoos, including a consideration of visitor behaviour. It concludes with a discussion of the role of zoos in the conservation of species in the wild and in species reintroductions. This book takes an international perspective and includes a wide range of examples of the operation of zoos and breeding programmes particularly in the UK, Europe, North America and Australasia. Visit www.wiley.com/go/rees/zoo to access the artwork from the book.

Wildlife Feeding and Nutrition

Wildlife Forensic Investigation

An Introduction to Zoo Biology and Management

Arranging the transportation of animals at research facilities is often an ordeal. There is a confusing patchwork of local, national, and international

regulations; a perceived lack of high-quality shipping services; a dearth of science-based good practices; and a lack of biosafety standards. It's a challenge to address and an impediment to biomedical research. *Guidelines for the Humane Transportation of Research Animals* identifies the current problems encountered in the transportation of research animals and offers recommendations aimed at local and federal officials to rectify these problems. This book also includes a set of good practices based on the extensive body of literature on transportation of agricultural animals, universal concepts of physiology, and a scientific understanding of species-specific needs and differences. Good practices were developed by the committee to address thermal environment, space requirements, food and water requirements, social interaction, monitoring of transportation, emergency procedures, personnel training, and biosecurity. *Guidelines for the Humane Transportation of Research Animals* is an essential guide for all researchers, animal care technicians, facilities managers, administrators, and animal care and use committees at research institutions.

Scientific Foundations of Zoos and Aquariums

Wild Animals in Captivity covers some of the mistaken notions concerning the conditions of animals in captivity, most of which are the result of an anthropomorphic approach to the subject. This book is composed of 12 chapters and starts with an overview of the historical development of zoological gardens. The succeeding chapters deal with the territorial requirements and sociological factors in the wild life. These topics are followed by discussions of the wild animal's transition behavior from freedom to captivity; the physiological and psychological aspects of animal captivity; and the motive and situation of animal escapes. Other chapters emphasize the physical and biological environment of animals in captivity. The final chapters examine the problems related to feeding patterns, and nutrition of captive animals. These chapters also explore the relationship between human and animal, their capacity to be tamed and trained. This book will prove useful to zoologists.

Theriogenology

The aim of this book is to compile some of the green technologies applied to improve the environment on Earth. The success of these technologies is built from humility; from this ethical principle, the concept of honest broker is defined in this work. Some of the biggest environmental problems, such as soil pollution by heavy metals and pollution from the mining industry and massive coal plants, are also addressed. Additional subjects depicted here include geothermal energy, plasma technology, and the correct use of electric vehicles, and demonstrate a promising scenario to diminish greenhouse gases. Likewise, caring for wildlife is essential; the correct use of certain technologies depicted here can contribute to their conservation.

Zoo Animals

Using first-person stories and approachable scientific reviews, this volume explores how zoos conduct and support science around the world.

Zoo Conservation Biology

The subjects of stress and animal welfare are currently attracting immense interest. This book brings together a range of perspectives from biomedical research (including human health and animal models of human stress) on stress and welfare, and assesses new approaches to conceptualising and alleviating stress.

Guidelines for the Humane Transportation of Research Animals

This book deals with the microorganism Salmonella. This bacterium is well known for a long time, being involved in systemic (typhus and paratyphus infections) and nonsystemic diseases such as food poisoning. Major and minor Salmonellae are widespread worldwide in developing countries and industrialized areas, respectively. In 2015, about 3576 Salmonella strains have been isolated from human infections in Italy. *S. typhimurium* and *S. enteritidis* are the most prevalent serotypes and represent 80% of cases of infections over the last 10 years. The antibiotic susceptibility decrease over the last decades is a big issue in the management of this bacterium, once considered easy to treat. The use of antibiotic combinations in order to overcome the microorganism resistance should be hoped.

Final Report on Environment Enhancement to Promote the Psychological Well-being of Nonhuman Primates

Zoo and Wild Animal Dentistry is the first book to offer a comprehensive reference to oral pathology and dental therapy in captive and wild exotic animals. Comprehensive in scope, the book is authored by noted experts on the topic who cover dental care for a broad range of species with an emphasis on oral health. Designed as a practical resource for treating exotic animals, the book is filled with instructive photographs and illustrations that clearly depict pathologies and demonstrate techniques. The book draws on the editors' and contributors' years of experience with exotic animals to offer a reliable resource to the history of veterinary dentistry, information on the evolution of teeth, practical dental therapeutics, and oral descriptions for each of the more than three hundred species included in the book. Zoo and Wild Animal Dentistry covers a wide range of zoo and wild species, including cats, bears, primates, dogs, raccoons, weasels, hyenas, marsupials, herbivores, edentates, sea mammals, birds, reptiles, and more. This important resource: Offers a comprehensive reference to oral pathology and dental therapy in captive and wild animals Highlights oral health to promote overall health Includes information on the most recent advances in the field Contains a groundbreaking resource for the dental care of exotic animals Written for zoo and wildlife caretakers and veterinarians, veterinary dentists, veterinary technicians, and veterinary students, Zoo and Wild Animal Dentistry is a practical resource that has information for the dental care of a wide range of animal species that are all too often neglected.

Wild Mammals in Captivity

Environmental enrichment is a simple and effective means of improving animal welfare in any species – companion, farm, laboratory and zoo. For many years, it has been a popular area of research, and has attracted the attention and concerns of animalkeepers and carers, animal industry professionals, academics, students and pet owners all over the world. This book is the first to integrate scientific knowledge and principles to show how environmental enrichment can be used on different types of animal. Filling a major gap, it considers the history of animal keeping, legal issues and ethics, right through to a

detailed exploration of whether environmental enrichment actually works, the methods involved, and how to design and manage programmes. The first book in a major new animal welfare series Draws together a large amount of research on different animals Provides detailed examples and case studies An invaluable reference tool for all those who work with or study animals in captivity This book is part of the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books produced in collaboration between UFAW (The Universities Federation for Animal Welfare), and Wiley-Blackwell provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see <http://www.wiley.com/go/ufaw>

The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals

Zoo Animal Welfare thoroughly reviews the scientific literature on the welfare of zoo and aquarium animals. Maple and Perdue draw from the senior author's 24 years of experience as a zoo executive and international leader in the field of zoo biology. The authors' academic training in the interdisciplinary field of psychobiology provides a unique perspective for evaluating the ethics, practices, and standards of modern zoos and aquariums. The book offers a blueprint for the implementation of welfare measures and an objective rationale for their widespread use. Recognizing the great potential of zoos, the authors have written an inspirational book to guide the strategic vision of superior, welfare-oriented institutions. The authors speak directly to caretakers working on the front lines of zoo management, and to the decision-makers responsible for elevating the priority of animal welfare in their respective zoo. In great detail, Maple and Perdue demonstrate how zoos and aquariums can be designed to achieve optimal standards of welfare and wellness.

The North American Model of Wildlife Conservation

Growing recognition of the complexity of animals' physical, social, and psychological lives in the wild has led both zookeepers and the zoo-going public to call for higher environmental standards for animals in captivity. Bringing together the work of animal behaviorists, zoo biologists, and psychologists, *Second Nature* explores a range of innovative strategies for environmental enrichment in laboratories and marine parks, as well as in zoos. From artificial fleeing-prey devices for leopards to irregular feeding schedules for whales, the practices discussed have resulted in healthier, more relaxed animals that can breed more easily and can exert some control over their environments. Moving beyond the usual studies of primates to consider the requirements of animals as diverse as reptiles, amphibians, marine mammals, small cats, hooved grazers, and bears, contributors argue that whether an animal forages in the wild or plays computer games in captivity, the satisfaction its activity provides—rather than the activity itself—determines the animal's level of physical and psychological well-being. *Second Nature* also discusses the ways in which environmental enrichment can help zoo-bred animals develop the stamina and adaptability for survival in the wild, and how it can produce healthier lab animals that yield more valid test results. Providing a theoretical framework for the science of environmental enrichment in a variety of settings, the book renews and extends a humane approach to the keeping and conservation of animals.

Pathology of Wildlife and Zoo Animals

A 1985 amendment to the Animal Welfare Act requires those who keep nonhuman primates to develop and follow appropriate plans for promoting the animals' psychological well-being. The amendment, however, provides few specifics. The Psychological Well-Being of Nonhuman Primates recommends practical approaches to meeting those requirements. It focuses on what is known about the psychological needs of primates and makes suggestions for assessing and promoting their well-being. This volume examines the elements of an effective care program--social companionship, opportunities for species-typical activity, housing and sanitation, and daily care routines--and provides a helpful checklist for designing a plan for promoting psychological well-being. The book provides a wealth of specific and useful information about the psychological attributes and needs of the most widely used and exhibited nonhuman primates. Readable and well-organized, it will be welcomed by animal care and use committees, facilities administrators, enforcement inspectors, animal advocates, researchers, veterinarians, and caretakers.

American Zoo

In Defense of Dolphins

A haunting love story set during the First World War amidst the horrors of the Armenian Genocide One woman's journey into her family's past reveals a shocking story that has never been told. 1915, Aleppo, Syria. When Elizabeth Endicott steps off the boat from Boston, armed only with a crash course in nursing, nothing could have prepared her for the atrocities she is about to face. For Aleppo is the arrival point for the hundreds of thousands of Armenians who have been forced to march out of Turkey and through the desert to die. There Elizabeth gets to know Armen, a young Armenian engineer who has already lost his wife and infant daughter in the Genocide. When Armen travels to Egypt to join the British army, he begins to write to Elizabeth, and slowly realizes that, unless he can find his way back to her, he risks becoming lost forever. Present day, New York. Laura Petrosian has never really given her Armenian heritage much thought until an old friend calls, claiming to have seen a photo of Laura's grandmother advertising a museum exhibition. As Laura embarks on a journey back through her family's history she'll find a tale of love, loss - and the hidden story of a nation in mourning. 'Chris Bohjalian is at his very finest in this searing story of love and war. I was mesmerized from page one. Bravo!' Paula McLain, author of *The Paris Wife* 'The Sandcastle Girls' is deft, layered, eye-opening, and riveting. I was deeply moved.' Wally Lamb, author of *The Hour I First Believed* 'Powerful . . . Bohjalian's storytelling makes this a beautiful, frightening, and unforgettable read' Publishers' Weekly

Global Exposition of Wildlife Management

In the face of ever-declining biodiversity, zoos have a major role to play in species conservation. Written by professionals involved in in situ conservation and restoration projects internationally, this is a critical assessment of the contribution of zoos to species conservation through evidence amassed from a wide range of sources. The first part outlines the biodiversity context within which zoos should operate, introducing the origins and global spread of zoos and exploring animal collection composition. The second part focuses on the basic elements of keeping viable captive animal populations. It considers the consequences of captivity on animals, the genetics of captive populations and the performance of zoos in captive breeding. The final part examines ways in

which zoos can make a significant difference to conservation now and in the future. Bridging the gap between pure science and applied conservation, this is an ideal resource for both conservation biologists and zoo professionals.

The Laws Protecting Animals and Ecosystems

In *Medicine of Australian Mammals*, more than 30 experts present the most current information available on the medical management of all taxa of Australian native mammals. This comprehensive text is divided into two parts. The first includes chapters on general topics relevant to the medical management of captive and free-ranging Australian native mammals such as: veterinary considerations for the rescue, treatment, rehabilitation and release of wildlife; veterinary aspects of hand-rearing orphaned marsupials; marine mammal strandings and the role of the veterinarian; and wildlife health investigation and necropsy of Australian mammals. The second part covers the medicine of specific taxa of Australian native mammals. Detailed information on taxonomy, distribution, biology, anatomy, physiology, reproduction, husbandry, nutrition, physical and chemical restraint, clinical pathology, hand-rearing, diseases, zoonoses, therapeutics, reproductive management and surgery is included. This practical, one-source reference is complemented by detailed photographs and illustrations, as well as tables listing reproductive and physiological data, diets, haematology and biochemistry values, and drug formularies. Appendices include a checklist of the mammals of Australia and its territories and a guide to the identification of common parasites of Australian mammals. *Medicine of Australian Mammals* is clinically oriented and is a must-have for veterinary clinicians, no matter how experienced. The book will also be of use to veterinary students, researchers, biologists, zoologists, wildlife carers and other wildlife professionals.

Zoo and Wild Animal Dentistry

Zoo and Wild Mammal Formulary offers fast access to authoritative dosing information for drugs used in more than 35 zoo and wild mammal groups, including marsupials, bears, and elephants. Taking an easy-to-use tabular format, the book is organized by taxa, with drug doses sorted by type and alphabetically arranged in every chapter. Clear and comprehensive, the book offers dosages for all important drugs, including antibiotics, antifungals, anesthetics, analgesics, and more. Each dose is referenced with a journal or textbook source, including the number of animals in the study where available, making it easy to find trusted information. Offers essential drug information for a wide range of zoo and wild mammals in an easy-to-consult format Provides dosing amounts for all important drugs, including antibiotics, antifungals, anesthetics, and analgesics Includes dosages for over 35 mammal groups, including marsupials, bears, and elephants Takes a tabular approach for quick reference Makes it easy to find a referenced dose for these animals, eliminating time spent searching through other sources *Zoo and Wild Mammal Formulary* is an essential reference for all veterinarians seeing zoo and wild animal patients, including zoo and wildlife veterinarians, veterinary specialists, and veterinary students.

Updates on Brucellosis

The seminal reference on the care of laboratory and captive animals, *The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals* is a must-have for anyone working in this field. The UFAW Handbook has been the definitive text since 1947. Written for an international

audience, it contains contributions from experts from around the world. The book focuses on best practice principles throughout, providing comprehensive coverage, with all chapters being peer reviewed by anonymous referees. As well as addressing the husbandry of laboratory animals, the content is also of great value to zoos and aquaria. Changes for the eighth edition: Revised and updated to reflect developments since publication of the previous edition. New chapters on areas of growing concern, including: the 3Rs; phenotyping; statistics and experimental design; welfare assessment; legislation; training of people caring for lab animals; and euthanasia. All material combined into one volume for ease of reference. This book is published on behalf of UFAW (The Universities Federation for Animal Welfare), with whom we also publish the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see <http://www.wiley.com/go/ufaw> www.wiley.com/go/ufaw/a.

Building a Future for Wildlife

Hardware verification is the process of checking whether a design conforms to its specifications of functionality and timing. In today's design processes it becomes more and more important. Very large scale integrated (VLSI) circuits and the resulting digital systems have conquered a place in almost all areas of our life, even in security sensitive applications. Complex digital systems control airplanes, have been used in banks and on intensive-care units. Hence, the demand for error-free designs is more important than ever. In addition, economic reasons underline this demand as well. The design and production process of present day VLSI-circuits is highly time- and cost-intensive. Moreover, it is nearly impossible to repair integrated circuits. Thus, it is desirable to detect design errors early in the design process and not just after producing the prototype chip. All these facts are reflected by developing and production statistics of present day companies. For example, Intel Technologies [118] assumed that about 60% to 80% of the overall design time was spent for verification in 2000. Other sources cite the 3-to-1 head count ratio between verification engineers and logic designers. This shows that verifying logical correctness of the design of hardware systems is a major gate to the problem of time-to-market (cf. [113]). With the chip complexity constantly increasing, the difficulty as well as the importance of functional verification of new product designs has been increased. It is not only more important to get error-free designs.

The Psychological Well-Being of Nonhuman Primates

Brucellosis is a major zoonotic disease that may cause a serious illness in humans and animals. Global prevalence of human brucellosis remains significant. More than half a million new brucellosis cases from 100 countries are reported annually to the World Health Organization (WHO). The majority of these cases are reported in developing countries. In humans, brucellosis (undulant fever, Malta fever) is characterized by an acute bacteremic phase followed by a chronic stage that may extend over many years and may involve many tissues. It is a systemic disease, and many organ systems (nervous system, heart, skeletal system, bone marrow, etc.) may become involved following hematogenous dissemination. Although eradicated in some countries, it remains one of the most economically important zoonosis worldwide as it is responsible for huge economic losses as well as significant human morbidity in endemic areas. Because of the nonspecific clinical manifestations of human brucellosis and the need for prolonged combination therapy with antibiotics that are not routinely prescribed for other infectious diseases, laboratory confirmation of the diagnosis is of paramount importance for adequate patient management. In

addition, evidence of brucellosis has serious public health implications because it discloses exposure to a contaminated source (infected animals or their products, unsafe laboratory practices, or a potential biological warfare attack). This book addresses human brucellosis with stress on symptoms including those related to the less recognized disease localizations, risk of exposure, treatment, and prevention. Light is shed on animal brucellosis as it pertains to human exposure. The book also emphasizes on laboratory procedures in culturing and serologic techniques. Epidemiologic surveillance is among this books subjects as well as veterinary control measures.

Savages and Beasts

Orangutans swing from Kevlar-lined fire hoses. Giraffes feast on celebratory birthday cakes topped with carrots instead of candles. Hi-tech dinosaur robots growl among steel trees, while owls watch animated cartoons on old television sets. In *American Zoo*, sociologist David Grazian takes us on a safari through the contemporary zoo, alive with its many contradictions and strange wonders. Trading in his tweed jacket for a zoo uniform and a pair of muddy work boots, Grazian introduces us to zookeepers and animal rights activists, parents and toddlers, and the other human primates that make up the zoo's social world. He shows that in a major shift away from their unfortunate pasts, American zoos today emphasize naturalistic exhibits teeming with lush and immersive landscapes, breeding programs for endangered animals, and enrichment activities for their captive creatures. In doing so, zoos blur the imaginary boundaries we regularly use to separate culture from nature, humans from animals, and civilization from the wild. At the same time, zoos manage a wilderness of competing priorities—animal care, education, scientific research, and recreation—all while attempting to serve as centers for conservation in the wake of the current environmental and climate-change crisis. The world of the zoo reflects how we project our own prejudices and desires onto the animal kingdom, and invest nature with meaning and sentiment. A revealing portrayal of comic animals, delighted children, and feisty zookeepers, *American Zoo* is a remarkable close-up exploration of a classic cultural attraction.

Wild Mammals in Captivity

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

Principles and Applications of Domestic Animal Behavior

Zoos, aquaria, and wildlife parks are vital centers of animal conservation and management. For nearly fifteen years, these institutions have relied on *Wild Mammals in Captivity* as the essential reference for their work. Now the book reemerges in a completely updated second edition. *Wild Mammals in Captivity* presents the most current thinking and practice in the care and management of wild mammals in zoos and other institutions. In one comprehensive volume, the editors have gathered the most current information from studies of animal behavior; advances in captive breeding; research in physiology, genetics, and nutrition; and new thinking in animal management and welfare. In this edition, more than three-quarters of the text is new, and information from more than seventy-five contributors is thoroughly updated. The standard text for all courses in zoo biology, *Wild Mammals in Captivity* will, in its new incarnation, continue to be used by zoo managers, animal caretakers, researchers, and anyone with an interest in how to manage animals in captive conditions.

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