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Guyton and Hall Textbook of Medical
Physiology E-Book Elsevier India
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.

[Interactive Physiology 10-System Suite CD-ROM \(Valuepack Item\)](#) CRC Press

Animals are biological transformers of dietary matter and energy to produce high-quality foods and wools for human consumption and use. Mammals, birds, fish, and shrimp require nutrients to survive, grow, develop, and reproduce. As an interesting, dynamic, and challenging discipline in biological sciences, animal nutrition spans an immense range from chemistry,

biochemistry, anatomy and physiology to reproduction, immunology, pathology, and cell biology. Thus, nutrition is a foundational subject in livestock, poultry and fish production, as well as the rearing and health of companion animals. This book entitled Principles of Animal Nutrition consists of 13 chapters. Recent advances in biochemistry, physiology and anatomy provide the foundation to understand how nutrients are utilized by ruminants and non-ruminants. The text begins with an overview of the physiological and biochemical bases of animal nutrition, followed by a detailed description of chemical properties of carbohydrates, lipids, protein, and amino acids. It advances to the coverage of the digestion, absorption, transport, and

metabolism of macronutrients, energy, vitamins, and minerals in animals. To integrate the basic knowledge of nutrition with practical animal feeding, the book continues with discussion on nutritional requirements of animals for maintenance and production, as well as the regulation of food intake by animals. Finally, the book closes with feed additives, including those used to enhance animal growth and survival, improve feed efficiency for protein production, and replace feed antibiotics. While the classical and modern concepts of animal nutrition are emphasized throughout the book, every effort has been made to include the most recent progress in this ever-expanding field, so that readers in various biological disciplines can integrate biochemistry

and physiology with nutrition, health, and disease in mammals, birds, and other animal species (e.g., fish and shrimp). All chapters clearly provide the essential literature related to the principles of animal nutrition, which should be useful for academic researchers, practitioners, beginners, and government policy makers. This book is an excellent reference for professionals and a comprehensive textbook for senior undergraduate and graduate students in animal science, biochemistry, biomedicine, biology, food science, nutrition, veterinary medicine, and related fields.

Principles of Animal Physiology

Academic Press

Introduction to Animal Physiology

provides students with a thorough, easy-

to-understand introduction to the principles of animal physiology. It uses a comparative approach, with a broad spectrum of examples chosen to illustrate physiological processes from across the animal kingdom. The book covers a wide range of topics, including neurons and nervous systems, endocrine function, ventilation and gas exchange, thermoregulation, gastrointestinal function and reproduction. It also present topics that students typically struggle with, including neuronal membrane function, in a logical, structured format, highlighting to core concepts. Simple analogies are used to clarify important facts.

Introduction to Animal Physiology

Elsevier Health Sciences

Showing how to maximize performance

in horses, *The Athletic Horse: Principles and Practice of Equine Sports Medicine*, 2nd Edition describes sports training regimens and how to reduce musculoskeletal injuries. Practical coverage addresses the anatomical and physiological basis of equine exercise and performance, centering on evaluation, imaging, pharmacology, and training recommendations for sports such as racing and show jumping. Now in full color, this edition includes new rehabilitation techniques, the latest imaging techniques, and the best methods for equine transportation. Written by expert educators Dr. David Hodgson, Dr. Catherine McGowan, and Dr. Kenneth McKeever, with a panel of highly qualified contributing authors. Expert international contributors provide

cutting-edge equine information from the top countries in performance-horse research: the U.S., Australia, U.K., South Africa, and Canada. The latest nutritional guidelines maximize the performance of the equine athlete. Extensive reference lists at the end of each chapter provide up-to-date resources for further research and study. NEW full-color photographs depict external clinical signs, allowing more accurate clinical recognition. NEW and improved imaging techniques maximize your ability to assess equine performance. UPDATED drug information is presented as it applies to treatment and to new regulations for drug use in the equine athlete. NEW advances in methods of transporting equine athletes ensure that the amount of stress on the athlete is kept to a minimum. NEW

rehabilitation techniques help to prepare the equine athlete for a return to the job. Two NEW authors, Dr. Catherine McGowan and Dr. Kenneth McKeever, are highly recognized experts in the field.

Animal Physiology Momentum Press Berne & Levy Physiology has long been respected for its scientifically rigorous approach - one that leads to an in-depth understanding of the body's dynamic processes. The South Asia Edition by Drs. Bruce M. Koeppen and Bruce A. Stanton, continues this tradition of excellence. With integrated coverage of biophysics and neurophysiology, key experimental observations and examples, and full-color design and artwork, this mid-size text is "just right" for a strong understanding of this

complex field. An organ system-based approach clearly describes all of the mechanisms that control and regulate bodily function. Key experimental observations and examples provide a rich understanding of the body's dynamic processes.

Principles and Practice, Second Edition Springer Nature

Animal Behavior, Third Edition covers animal behavior from its neurological underpinnings to the importance of behavior in conservation. The book's authors, Michael Breed and Janice Moore, bring almost 60 years of combined experience as university professors, much of that teaching animal behavior. Chapters cover this social behavior and the relationship between parasites, pathogens and behavior.

Thoughtful coverage has also been given to foraging behavior, mating and parenting behavior, anti-predator behavior, and learning. The book addresses the physiological foundations of behavior in a way that is both accessible and inviting, with each chapter beginning with learning objectives and ending with thought-provoking questions. Additionally, special terms and definitions are highlighted throughout, making this book an essential work for students and academic seeking a foundation in the field. Provides a rich resource on animal science and behavior for students and professors from a wide range of life science disciplines Features updated and revised chapters, with new case studies and high-definition illustrations

Highlights new focuses on animal welfare issues and companion animal behavior

Tracking Animal Migration with Stable Isotopes Prentice Hall

Current Techniques in Small Animal Surgery, Fifth Edition provides current information regarding surgical techniques from the perspective of clinicians who are performing specific procedures on a regular basis. It is intended to be concise, well illustrated, and reflective of the writer's experience, both good and bad. The emphasis with this volume

Stress and Animal Welfare W.B. Saunders Company

This is the Second Edition of a well-received book that reflects a fresh, integrated coverage of the concepts and

scientific measurement of stress and welfare of animals including humans. This book explains the basic biological principles of coping with many forms of adversity. The major part of this work is devoted to explaining scientifically usable concepts in stress and welfare. A wide range of welfare indicators are highlighted in detail with examples being drawn from man and other species. The necessity for combining information from disciplines is emphasized with a one-health, one-welfare approach. This information forms the basis for a synthesis of new ideas. Among the issues covered are: - How brain and body systems regulate using feelings, physiological responses, behaviour and responses to pathology - Limits to adaptation - Assessing positive and

negative welfare during both short-term and long-term situations - Ethical problems and suggested solutions A proper assessment of animal welfare is essential to take informed decisions about what is morally acceptable in terms of practice and in the development of a more effective legislation. This work encapsulates a very wide body of literature on scientific aspects of animal welfare and will thus prove a valuable asset for animal welfare scientists, psychologists, students and teachers of all forms of biology, behaviour, medicine, veterinary medicine and animal usage.

Principles of Human Research S. Chand Publishing

The long-awaited second edition of an authoritative reference on

electrophysiologic vision testing, including detailed information on techniques and problems, basic physiology and anatomy, theoretical concepts, and clinical findings; with extensive new material. This authoritative text is the only comprehensive reference available on electrophysiologic vision testing, offering both practical information on techniques and problems as well as basic physiology and anatomy, theoretical concepts, and clinical correlations. The second edition, of the widely used text, offers extensive new material and updated information: 65 of the 84 chapters are completely new, with the changes reflecting recent advances in the field. The book will continue to be an essential resource for practitioners and scholars from a range

of disciplines within vision science. The contributions not only cover new information—important material that is likely to become more important in the next decade—but also offer a long-range perspective on the field and its remarkable development in the last century. After discussing the history and background of clinical electrophysiology, the book introduces the anatomy of the retina and principles of cell biology in the visual pathways at the molecular, physiological, and biochemical levels. It relates these new findings to the techniques and interpretations of clinical tests, including the electro-oculogram (EOG), electroretinogram (ERG), and visual evoked potentials (VEP), which are discussed in detail, as are equipment, data acquisition and analysis, principles

and protocols for clinical testing, diseases and dysfunction, and animal testing. Notable additions for this edition include chapters on the origin of electroretinogram waveforms, multifocal techniques, testing in standard laboratory animals, recent advances in analysis of abnormalities in disease, and the applications of these techniques to the study of genetic abnormalities.

Mechanisms and Adaptations MIT Press

This book examines three ways plants respond to their changing environment. The first example can be found in all plants. Despite the extreme changes in weather, plants have to stay where they are and respond to whatever nature produces. Plants have the capacity to respond quickly and yet they can evolve

in a single generation. The second example addresses how an individual leaf has to respond rapidly and repeatedly to maintain the proper balance of carbon dioxide (CO₂) and water so that it can photosynthesize but not dry out. This delicate balance is governed by a pair of cells that regulate the size of openings on leaves. The final chapter examines a unique example of a leaf that can move fast enough to trap insects and digest them. This book presents data that led to our understanding of how plants function on different time scales.

The Behavior of Animals John Wiley & Sons

Published by Sinauer Associates, an imprint of Oxford University Press.
Principles of Animal Locomotion Pearson

Veterinary Immunology: Principles and Practice has become the adopted text in numerous veterinary schools throughout the world. Widely updated with advances in knowledge since 2011, this second edition reflects the rapid development in the field. The new edition presents expanded information on commonly used diagnostic test procedures and discusses

Small Animal Clinical Pharmacology and Therapeutics - E-Book Elsevier

The Science of Animal Growth and Meat Technology, Second Edition, combines fundamental science- based and applied, practical concepts relating to the prenatal and postnatal growth of cattle, sheep and pigs. It provides the necessary components to understand the production and growth of livestock

for safe and quality meat products and presents an understanding of the principles of meat science and technology that is needed to understand the meat industry. Information on the slaughter process of animals, muscle structure and meat tenderness, meat quality, meat safety, and microbiology makes this a valuable self-study reference for students and professionals entering the field. Describes principles in muscle metabolism, meat quality and meat safety using case studies Discusses the microbial safety of meat products, primary pathogens of concern, and pathogen detection Offers solutions on how to control bacterial growth to improve the safety and quality of meat Presents a new chapter on packaging for meat and meat products that focuses on

flexible film technology, packaging materials and equipment technology Includes new information on inspection systems prior to slaughter, during slaughter, and the inspection of meat processing systems

Current Techniques in Small Animal Surgery John Wiley & Sons

A sound knowledge of anatomy and physiology is an essential basis for the effective clinical treatment of companion animals. The new Introduction to Veterinary Anatomy and Physiology Textbook builds on the success of the first edition in its thorough coverage of the common companion animal species. Updated throughout, the new edition features online learning resources, providing students with the opportunity to test their knowledge with questions

and visual exercises, while instructors can download questions, figures and exercises to use as teaching aids. An essential first purchase for all those embarking upon a veterinary career Now with on-line resources including self-assessment tools and teaching aids Comprehensive coverage of all major companion animal species New equine chapter 'Applied Anatomy' tips relate theory to clinical practice, showing the relationship between anatomy and physiology and the disease process *Animal Physiology* CRC Press Tracking Animal Migration with Stable Isotopes, Second Edition, provides a complete introduction to new and powerful isotopic tools and applications that track animal migration, reviewing where isotope tracers fit in the modern

toolbox of tracking methods. The book provides background information on a broad range of migration scenarios in terrestrial and aquatic systems and summarizes the most cutting-edge developments in the field that are revolutionizing the way migrant individuals and populations are assigned to their true origins. It allows undergraduates, graduate students and non-specialist scientists to adopt and apply isotopes to migration research, and also serves as a useful reference for scientists. The new edition thoroughly updates the information available to the reader on current applications of this technique and provides new tools for the isotopic assignment of individuals to origins, including geostatistical multi-isotope approaches and the ways in

which researchers can combine isotopes with routine data in a Bayesian framework to provide best estimates of animal origins. Four new chapters include contributions on applications to the movements of terrestrial mammals, with particular emphasis on how aspects of animal physiology can influence stable isotope values. Includes an animal physiology component that is an in-depth overview of the cautions and caveats related to this technique Covers marine and aquatic isoscapes and methods to track marine organisms for researchers trying to apply isotopic tracking to animals in these environments Features state-of-the-art statistical treatments for assignment and combining diverse datasets Elsevier Health Sciences

Principles of Neurobiology, Second Edition presents the major concepts of neuroscience with an emphasis on how we know what we know. The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper-level undergraduate and graduate students discover the relevant primary literature. Written by a single author in a clear and consistent writing style, each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach. Students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester-long course. Principles of Neurobiology is accompanied by a rich package of online student and instructor

resources including animations, figures in PowerPoint, and a Question Bank for adopting instructors.

Mechanisms, Function and Evolution
Academic Press

Known for its clear presentation style, single-author voice, and focus on content most relevant to clinical and pre-clinical students, Guyton and Hall Textbook of Medical Physiology, 14th Edition, employs a distinctive format to ensure maximum learning and retention of complex concepts. A larger font size emphasizes core information, while supporting information, including clinical examples, are detailed in smaller font and highlighted in pale blue - making it easy to quickly skim the essential text or pursue more in-depth study. This two-tone approach, along with other

outstanding features, makes this bestselling text a favorite of students worldwide. Offers a clinically oriented perspective written with the clinical and preclinical student in mind, bridging basic physiology with pathophysiology. Focuses on core material and how the body maintains homeostasis to remain healthy, emphasizing the important principles that will aid in later clinical decision making. Presents information in short chapters using a concise, readable voice that facilitates learning and retention. Contains more than 1,200 full-color drawings and diagrams – all carefully crafted to make physiology easier to understand. Features expanded clinical coverage including obesity, metabolic and cardiovascular disorders, Alzheimer’s disease, and other

degenerative diseases. Includes online access to interactive figures, new audio of heart sounds, animations, self-assessment questions, and more. Evolve Instructor site with an image and test bank is available to instructors through their Elsevier sales rep or via request at <https://evolve.elsevier.com>.

The Laboratory Mouse CRC Press

This textbook encompasses all aspects of systemic physiology, as well as physiological principles and concepts. Written in a concise format, the book includes clinical correlations to demonstrate the practical application of concepts. This edition features a chapter on male reproductive physiology, as well as expanded coverage of blood in the cardiovascular section. There is also new coverage of avian physiology in the

Renal and Gastrointestinal sections. Chapter outlines, practice questions, and brief bibliographies for each chapter are intended to be helpful to students.

Principles of Animal Nutrition University of Chicago Press

Confidently utilize the rapidly growing selection of pharmaceuticals used to treat small animals. *Small Animal Pharmacology and Therapeutics*, 2nd Edition helps you understand both the therapeutic uses of common pharmaceuticals and the pharmacology behind them, giving you all of the information you need to design and modify dosing regimens, identify factors that cause drugs to fail, and anticipate adverse drug reactions. Comprehensive approach emphasizes the use of drugs for prevention as well as treatment.

Clear, consistent organization makes it easy to find the information you need when you need it. Dosage tables help you find essential pharmaceutical information at a glance.

Pharmacogenetics chapter helps you understand how to use this emerging science to find the right dose for each patient, optimizing efficiency and minimizing toxicity. Routes of administration and sample pharmaceutical calculations provide fast, efficient access to comprehensive drug administration all in one inclusive resource. Multiple chapters on Antimicrobial Drugs and Antimicrobial Therapy highlight the impact of antimicrobial resistance on current practice.

Anatomy and Physiology Benjamin

Cummings

Clinical and Translational Science: Principles of Human Research, Second Edition, is the most authoritative and timely resource for the broad range of investigators taking on the challenge of clinical and translational science, a field that is devoted to investigating human health and disease, interventions, and outcomes for the purposes of developing new treatment approaches, devices, and modalities to improve health. This updated second edition has been prepared with an international perspective, beginning with fundamental principles, experimental design, epidemiology, traditional and new biostatistical approaches, and investigative tools. It presents complete instruction and guidance from

fundamental principles, approaches, and infrastructure, especially for human genetics and genomics, human pharmacology, research in special populations, the societal context of human research, and the future of human research. The book moves on to discuss legal, social, and ethical issues, and concludes with a discussion of future prospects, providing readers with a comprehensive view of this rapidly developing area of science. Introduces novel physiological and therapeutic strategies for engaging the fastest growing scientific field in both the private sector and academic medicine Brings insights from international leaders into the discipline of clinical and translational science Addresses drug discovery, drug repurposing and

development, innovative and improved approaches to go/no-go decisions in drug

development, and traditional and innovative clinical trial designs