

Introduction To Animal Science

Since the beginning of civilization, humans and animals have developed very strong associations to their mutual benefits. Livestock, particularly bovines, are important contributors to total food production in the world. The social expectations in Science and Technology are increasing because of rapid advances. Prevention and control of infectious diseases in bovines have been among the most public health objective in the last decade. In the present book, experts from different continents present important aspects of bovine science such as louse infestations of ruminants, cytogenetics of bovines, factors of competitiveness for bovines, feed manipulation, enhancement of conjugated linoleic acid and its bioavailability, emergence of antimicrobial resistance, and also meat quality. The aim of this book to provide an understanding of the present scenario, advances and challenges in bovine science. Authored by an integrated committee of plant and animal scientists, this review of newer molecular genetic techniques and traditional research methods is presented as a compilation of high-reward opportunities for agricultural research. Directed to the Agricultural Research Service and the agricultural research community at large, the volume discusses biosciences research in genetic engineering, animal science, plant science, and plant diseases and insect pests. An optimal climate for productive research is discussed. A comprehensive and balanced overview of animal agriculture in contemporary society! It develops the principles of animal biotechnology as a science within the context of life-cycle production of animals for economic and biologic efficiency. Individual chapters describe and analyze particular animal industries such as dairy cattle, poultry, aquatic animals, etc. The book also discusses a wide variety of animal products.

Systems Biology is an interdisciplinary approach to the study of life made possible through the explosion of molecular data made available through the genome revolution and the simultaneous development of computational technologies that allow us to integrate these large data sets. Systems Biology has changed the way biological science views and studies life and has been implemented in research efforts across the biological sciences. Systems Biology and Livestock Science will be the first book to review the latest research using this research methodology in efforts to improve the efficiency, health, and quality of livestock production. Systems Biology and Livestock Science opens with useful introductory chapters explaining key systems biology principles. The chapters then progressively look at specific advances in fields across livestock science. Coverage includes, but is not limited to, chapters on systems biology approaches to animal nutrition, reproduction, health and disease, and animal physiology. Written by leading researchers in the field, Systems Biology and Livestock Science, will be an invaluable resource to researchers, professionals, and advance students working in this rapidly developing discipline.

Introduction to Animal Technology

The Biology of Domestic Animals

Exploring Animal Science

Animal Nutrition Science

Science, Medicine, and Animals

By 2050 the world's population is projected to grow by one-third, reaching between 9 and 10 billion. With globalization and expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated. The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system. Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security. Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development, technology, and resource needs for research in the field of animal agriculture, both nationally and internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety and quality, and effective communication and adoption of new knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs of the global population are to be met. The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century.

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. This textbook in parasitology incorporates the spectacular advances in biological sciences within recent years. It presents students and research workers with a broad approach to the morphology, ultrastructure, speciation, life cycles, biochemistry, in vitro culture and immunology of parasitology.

Laboratory animals are becoming increasingly important for biomedical research. It is said that approximately 70% of biomedical research is associated with the use of experimental animals. Laboratory animal research not only expands our knowledge of science, but also greatly improves human and animal health. The field of laboratory animal science is ever-growing and changing as new experimental techniques are developed and new animal models are created. It is essential to know not only the biological features of each laboratory animal but also how to use and care for them responsibly in order to perform high-quality experiments.

Courses in beginning Laboratory Animal Science are starting to be offered in many universities throughout the world. However, a practical introductory textbook that contains state-of-the-art techniques is still lacking. Fundamentals of Laboratory Animal Science provides comprehensive information on the principles and practices of using laboratory animals for biomedical research. Each individual chapter focuses on a key sub-discipline of laboratory animal science: animal welfare and best humane care practices in the laboratory; the quality control of laboratory animals; the anatomy, physiology, and husbandry of commonly used species; the principles of creating and using animal models for studying human diseases; practical techniques used for laboratory animal experiments; experimental design; and animal experimentation management. Knowledge of this broad spectrum of concepts and skills will ensure research goes smoothly while greatly reducing animal pain and distress. Well-illustrated and thoroughly referenced, this book will serve not only as a standard textbook but also as a handy guide for veterinarians, researchers, animal care staff, administrators, and other professionals who are involved in laboratory animal science.

Systems Biology and Livestock Science

Statistics for Veterinary and Animal Science

Bovine Science

Introduction to Animal Parasitology

Basic principles: The effect of climate; Maintenance of health; Nutrition; Breeding; Husbandry: Cattle; Dairy cattle; Beef cattle; Buffalo; Sheep; Goats; Pigs; Camels; Poultry; Animal products; Milk and milk products; The preparation of meat and carcase by products; Appendices; The african nomad; Marking livestock for identification; Head-yoke for single draft-ox; Index.

"Animal Nutrition Science introduces the fundamental topics of animal nutrition, in a treatment which deals with terrestrial animals in general. The subjects covered include nutritional ecology and the evolution of feeding styles, nutrients (including minerals, vitamins and water) and their functions, food composition and methods of evaluating foods, mammalian and microbial digestion and the supply of nutrients, control and prediction of food intake, quantitative nutrition and ration formulation, methods of investigating nutritional problems, nutritional genomics, nutrition and the environment, and methods of feed processing and animal responses to processed foods." -- Publisher's description.

Science, Medicine, and Animals explains the role that animals play in biomedical research and the ways in which scientists, governments, and citizens have tried to balance the experimental use of animals with a concern for all living creatures. An accompanying Teacher's Guide is available to help teachers of middle and high school students use Science, Medicine, and Animals in the classroom. As students examine the issues in Science, Medicine, and Animals, they will gain a greater understanding of the goals of biomedical research and the real-world practice of the scientific method in general. Science, Medicine, and Animals and the Teacher's Guide were written by the Institute for Laboratory Animal Research and published by the National Research Council of the National Academies. The report was reviewed by a committee made up

of experts and scholars with diverse perspectives, including members of the U.S. Department of Agriculture, National Institutes of Health, the Humane Society of the United States, and the American Society for the Prevention of Cruelty to Animals. The Teacher's Guide was reviewed by members of the National Academies' Teacher Associates Network. Science, Medicine, and Animals is recommended by the National Science Teacher's Association NSTA Recommends. This textbook concentrates mainly on the science involved in the raising of production animals, rather than the art of animal husbandry, which must involve thousands of hours of working directly with livestock for mastery. Fourteen chapters cover introductory animal reproduction, genetics, nutrition, breeds, animal health, and general management of various common livestock species. Coverage includes traditional large industries such as dairy cow, goat, beef, sheep, swine, poultry, and equine, and other less common species such as rabbit, camel, and ostrich. The included CD-ROM features study guide software with chapter summaries, vocabulary practice, and self-tests. Shapiro teaches preveterinary science at Los Angeles Pierce College and was a dairy farmer for nearly 20 years. Annotation copyrighted by Book News Inc., Portland, OR

Introduction to Animal Physiology and Physiological Genetics

A Key to Sustainable Development

Fundamentals of Laboratory Animal Science

Animal Biotechnology

High-Reward Opportunities

Introduction to Laboratory Animal Science and Technology discusses the principles involved in the healthy maintenance of animals in the laboratory or animal house. This book is divided into eight six units of study of the physical requirements of animals, physiological data, and techniques of husbandry, followed by summary data capsules and recommended further reading. After an overview of the laboratory animals, this book goes on dealing with various aspects of animal care, including their accommodation, health care routine, and animal health and hygiene. The next chapters examine the components of animal diet, the biological aspects of animal reproduction, breeding and heredity. The final chapter emphasizes the legal requirements concerning anesthesia, laboratory procedures, and the issue of euthanasia. This book will prove useful to laboratory technicians, students, students, researchers, and the general public who are concerned for animals and their use in laboratory work.

This book focuses on the animal husbandry and nutrition based on significant evaluations by the authors of the chapters. Many chapters contain general overviews on animal husbandry and nutrition from different countries. Also, the sections created shed light on futuristic overlook with improvements for animal husbandry and feeding sector. Details about rearing and feeding different animal races are also covered herein. It is hoped that this book will serve as a source of knowledge and information on animal husbandry and nutrition sector.

The first edition of this book was published in 1988, entitled *Principles of Animal Technology I* and edited by P J Kelly, K G Millican and Pamela J Organ. This edition has been revised and enlarged to include developments in the subject that

have occurred in the last 12 years. It is well illustrated and many of the pictures are in colour. The Animals (Scientific Procedures) Act 1986 is covered in some detail as this impinges on all aspects of the care and use of animals in scientific procedures. Legal responsibilities of people working in this area are clearly described. Other topics covered include Animal Health, Housing and Environment, Routine Care, Feeding and Watering, Breeding and Development, Handling and Identification. Basic concepts of health and safety of staff are also introduced. The text has been specifically prepared for technicians beginning careers in Animal Technology and closely follows the syllabuses for the IAT Certificate examination and the animal technology unit of the BTEC First Certificate in Science (Animal Technology). It should also be of interest to any person starting work in establishments designated under the Animals (Scientific Procedures) Act 1986.

For freshman-level courses in Introductory Animal Science. This highly acclaimed, best-selling introduction to animal science explores the depth and breadth of both the livestock and poultry industries. It provides a sound overview of the biological principles of animal science (e.g. reproduction, genetics, nutrition, consumer products, etc.), and offers comprehensive coverage of the practical areas of breeding, feeding, and management of major farm animal species.

An Introduction to Animal Husbandry in the Tropics

Asking Animals

An Introduction to Animal Behaviour Testing

Principles and Applications of Domestic Animal Behavior

Introduction to Animal Physiology

This book presents animal cytology as a science of seeing and interpreting chromosome form and behaviour, and of appreciating its evolutionary significance. Its principal objective is to help students develop a basic understanding and confidence on all matters relating to animal chromosomes.

Designed to cover techniques for analysis of data in the animal sciences, this popular textbook provides an overview of the basic principles of statistics enabling the subsequent applications to be carried out with familiarity and understanding. Each chapter begins by introducing a problem with practical questions, followed by a brief theoretical background. Most topics are followed up with numerical examples to illustrate the methods described using data-sets from animal sciences and related fields. The same examples are then solved using the SAS software package. Written primarily for students and researchers in animal sciences, the text is also useful for those studying

agricultural, biological, and veterinary sciences.

Genetic-based animal biotechnology has produced new food and pharmaceutical products and promises many more advances to benefit humankind. These exciting prospects are accompanied by considerable unease, however, about matters such as safety and ethics. This book identifies science-based and policy-related concerns about animal biotechnology—key issues that must be resolved before the new breakthroughs can reach their potential. The book includes a short history of the field and provides understandable definitions of terms like cloning. Looking at technologies on the near horizon, the authors discuss what we know and what we fear about their effects—the inadvertent release of dangerous microorganisms, the safety of products derived from biotechnology, the impact of genetically engineered animals on their environment. In addition to these concerns, the book explores animal welfare concerns, and our societal and institutional capacity to manage and regulate the technology and its products. This accessible volume will be important to everyone interested in the implications of the use of animal biotechnology.

Every year billions of animals, from housecats to racehorses to pythons, are treated by veterinarians. The use of veterinary science to treat the health of animals has a long history; for the past five centuries it has developed as our understanding of animals' fundamental biology, pathology, and pharmacology has grown. Rapid global changes expected in the twenty-first century will require the profession to respond proactively, embracing new challenges and opportunities. James Yeates, Chief Veterinary Officer of the RSPCA, introduces the field of veterinary science, covering the history of its scientific and clinical aspects from early practices to recent challenges such as the outbreak of BSE and antibiotic resistance, and considering the differences between human medicine and veterinary medicine. Analysing the key roles played by diagnosis, treatment, and prevention with regard to the health of farm animals and pets, he relates this to wider aspects concerning public health, such as zoonoses (diseases that jump from animals to humans). Yeates also covers recent 'One Health' approaches involving the health of both humans and animals, seen as synergistic, and discusses the challenges for the future of

veterinary medicine, including the ethical dilemmas in balancing the interests of owners and animals when they do not coincide. 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.

Veterinary Science: A Very Short Introduction

Introduction to Animal Science

An Introductory Text

Introduction to Laboratory Animal Science and Technology

An Introduction to Animal Science

Introduction to Animal Science: Global, Biological, Social and Industry Perspectives, 4e features the most comprehensive, up-to-date coverage of the traditional disciplines that are so essential to a solid foundation in Animal Science: nutrition, digestion, feeds, genetics, reproduction, disease, and animal behavior. Species-focused chapters include the major species (horse, dairy cattle, beef cattle, sheep, goat, poultry, and swine) and the minor species (aquaculture, pets/companion animals, the lamoids, and rabbits).

Adopts a broad, cross-taxonomic approach to animal movement across both temporal and spatial scales; addresses how and why animals move, and in what ways they differ in their locomotion and navigation performance; synthesizes our current knowledge of the genetics of movement/migration, including gene flow and local adaptations; provides a future perspective on how patterns of animal migration may change over time, together with the potential evolutionary consequences.--Provided by publisher

The study of the biology of animals which are controlled by humankind is known as animal science. The production and management of animals which live on farms are also dealt with under this discipline. Some of the various animals which are studied within this field of study are livestock animals such as sheep, pigs, cattle and horses along with companion animals such as dogs and cats. Animal science also makes use of other disciplines of

science such as microbiology, animal behavior, genetics, physiology, reproduction and nutrition. There are various industries where animal science is applied. A few of them are livestock breeding industry, pharmaceutical industry and animal feed industry. This book provides significant information of this discipline to help develop a good understanding of animal science and related fields. Students in this field will be assisted by this book. Coherent flow of topics, student-friendly language and extensive use of examples make it an invaluable source of knowledge.

This book provides an introductory text covering the use and misuse of behaviour tests applied to animals. By including illustrative examples from a variety of species, the book inspires the animal scientist to think about what a given behavioural test can be used for and how the results can be interpreted. This text includes: the dos and don'ts of running behaviour tests and interpreting the results; many clear, simple illustrations which make the information readily accessible, down to earth, practical advice yet a thorough, evidence-based approach; information on behaviour tests for a whole range of species from companion, farm, zoo, laboratory and wild animals; succinct yet comprehensive text, designed to be read cover to cover and stimulate further reading. This book is an essential item in the researcher's toolkit when embarking on and devising any animal behaviour test and is valuable to students, established researchers, teachers and practitioners of applied ethology, animal welfare science, and veterinary science.

Animal Agriculture

Clinical Laboratory Animal Medicine

Animal Studies

Introduction to Veterinary Science

Animal Husbandry and Nutrition

Scientific Farm Animal Production
An Introduction to Animal Science

Banish your fears of statistical analysis using this clearlywritten and highly successful textbook. Statistics forVeterinary and Animal Science Third Edition is an introductorytext which assumes no previous knowledge of statistics. Itstarts with very basic methodology and builds on it to encompass some of the more advanced techniques that are currently used. This book will enable you to handle numerical data and criticallyappraise the veterinary and animal science literature. Written in anon-mathematical way, the emphasis is on understanding theunderlying concepts and correctly interpreting computer output, andnot on working through mathematical formulae. Key features:

Flow charts are provided to enable you to choose the correct statistical analyses in different situations. Numerous real worked examples are included to help you master the procedures. Two statistical packages, SPSS and Stata, are used to analyse data to familiarise you with typical computer output. The data sets from the examples in the book are available as electronic files to download from the book's companion website in ASCII, Excel, SPSS, Stata and R Workspace formats, allowing you to practice using your own software and fully get to grips with the techniques. A clear indication is provided of the more advanced or obscure topics so that, if desired, you can skip them without loss of continuity. New to this edition: New chapter on reporting guidelines relevant to veterinary medicine as a ready reference for those wanting to follow best practice in planning and writing up research. New chapter on critical appraisal of randomized controlled trials and observational studies in the published literature: a template is provided which is used to critically appraise two papers. New chapter introducing specialist topics: ethical issues of animal investigations, spatial statistics, veterinary surveillance, and statistics in molecular and quantitative genetics. Expanded glossaries of notation and terms. Additional exercises and further explanations added throughout to make the book more comprehensive. Carrying out statistical procedures and interpreting the results is an integral part of veterinary and animal science. This is the only book on statistics that is specifically written for veterinary science and animal science students, researchers and practitioners.

Introduction to Animal Science features the most comprehensive, up-to-date coverage of the traditional disciplines that are so essential to a solid foundation in Animal Science: nutrition, digestion, feeds, genetics, reproduction, disease, and animal behavior. The text's comprehensive, non-traditional approach introduces the discipline as an ever-changing, integral part of every aspect of human existence. Author W. Stephen Damron not only presents thorough coverage of the major species and their respective concerns, he challenges readers to consider the many pressing interests relevant to Animal Science as it influences and is influenced by society today.

A sound knowledge of anatomy and physiology is an essential basis for the effective clinical treatment of companion animals and farm animals alike. The fourth edition of this bestselling book continues to provide a comprehensive description of the anatomy and physiology of dogs and cats. The book builds on these foundations with detailed descriptions of exotic small species including birds, and domestic farm animals, including cows, sheep and pigs, as well as the horse.

A Circle of Discovery: Teacher's Guide

Animal Science

Scientific Farm Animal Production

Biostatistics for Animal Science, 3rd Edition

Global, Biological, Social, and Industry Perspectives

Introduction to Animal Physiology and Physiological Genetics, deals with topics on physiological measurement, comparisons, and analysis of the role of genotypes. This book emphasizes two aspects — the changes of physiological patterns in the course of development and the wide variation that can be found within a species. The text discusses the response mechanisms of living organisms from nerve impulses, chemical sense, muscle reaction, and includes some studies made on brain function. The effects of nutrition and energy such as the intake of food, water, oxygen, and the calculation of basic metabolic rates are explained. The book then discusses the role of the internal environment and that of the interstitial body fluid in the higher animals. The discussion

covers blood circulation, cardiac cycle, and a special section on the function of the heartbeat in the spider *Limulus* showing that stimulation of the abdominal ganglia increases the heartbeats. The text also considers significant concepts of physiological genetics, and then explains asexual and sexual reproduction, the sex hormones of invertebrates, and the use of stimulants for animal production. The physiological differences between species are examined, but more particularly on the reservoir of genetic diversity, where differences abound between families and offspring. One research made in molecular biology concludes that genes are responsible for regulating the amino acid sequence of proteins. Molecular biologists, general biologists, zoologists, and microbiologists will find the articles in this collection invaluable.

Clinical Laboratory Animal Medicine: An Introduction, Fourth Edition offers a user-friendly guide to the unique anatomy and physiology, care, common diseases, and treatment of small mammals and nonhuman primates. Carefully designed for ease of use, the book includes tip boxes, images, and review questions to aid in comprehension and learning. The Fourth Edition adds new information on transgenic mice, drug dosages, techniques, and environmental enrichment, making the book a comprehensive working manual for the care and maintenance of common laboratory animals. The book includes information on topics ranging from genetics and behavior to husbandry and techniques in mice, rats, gerbils, hamsters, guinea pigs, chinchillas, rabbits, ferrets, and nonhuman primates. A companion website provides editable review questions and answers, instructional PowerPoints, and additional images not found in the book. *Clinical Laboratory Animal Medicine* is an invaluable resource for practicing veterinarians, veterinary students, veterinary technicians, and research scientists.

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 VETERINARY SCIENCE, Third Edition, provides a solid foundation in this dynamic field for those studying animal and veterinary sciences or preparing for careers as veterinary assistants or technicians. The text begins with an overview of cellular and tissue physiology, followed by chapters dedicated to individual body systems to enable easy comprehension. The authors then investigate crucial topics such as nutrition, disease, surgeries, cost analysis of procedures, safety, and professionalism. Throughout the text, real-life examples are integrated with chapter material to provide practical context, and both small and large animals are featured to expose students to the variety of cases they may encounter in the field. Each chapter opens with a Day in the Life preview that explores relevant applications of upcoming content, and chapters conclude with a description of clinical significance. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introductory Animal Science

Animal Movement Across Scales

Introduction to Animal Cytogenetics

New Directions for Biosciences Research in Agriculture

An Introduction

EXPLORING ANIMAL SCIENCE offers educators the perfect tool for teaching animal agriculture: one that balances the academic background critical to building a strong foundation in fundamental science with the practical, production-oriented content vital to work in the real world. Its coverage spans a variety of areas like nutrition, anatomy and physiology, biotechnology, biosecurity, and genetics and animal reproduction. Each topic is presented in a straightforward manner that first investigates the basics, and then delves further into its practical application to the production, care, and management of animal agriculture. Ideal for a range of students, from late middle school to early high school, this unique approach is sure to engage by drawing such powerful connections between academics and real-life animal-based scenarios and situations. It also includes a wide range of activities that will fit any animal science classroom, making it an appealing choice for teachers and students alike. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Animal Agriculture: Sustainability, Challenges and Innovations discusses the land-based production of high-quality protein by livestock and poultry and how it plays an important role in improving human nutrition, growth and health. With exponential growth of the global population and marked rises in meat consumption per capita, demands for animal-source protein are expected to increase 72% between 2013 and 2050. This raises concerns about the sustainability and environmental impacts of animal agriculture. An attractive solution to meeting increasing needs for animal products and mitigating undesirable effects of agricultural practices is to enhance the efficiency of animal growth, reproduction, and lactation. Currently, there is no resource that offers specific knowledge of both animal science and technology, including biotechnology for the sustainability of animal agriculture for the expanding global demand of food in the face of diminishing resources. This book fills that gap, giving readers all the necessary information on important issues facing modern animal agriculture, namely its sustainability, challenges and innovative solutions. Integrates new knowledge in animal breeding, biotechnology, nutrition, reproduction and management Addresses the urgent issue of sustainability in modern animal agriculture Provides practical solutions on how to solve the current and future problems that face animal agriculture worldwide

Introduction to Veterinary Science, second edition, provides core information for a variety of learners

including those studying animal and veterinary sciences as well as students desiring to become veterinary assistants or technicians. The text begins with an overview of cellular and tissue physiology and then follows a systems approach for easy comprehension. It also investigates nutrition, disease, surgeries, and cost analysis of procedures. Both small and large animals are used in examples to provide a real life look at the varied cases encountered in the field. Each chapter begins with a Day in the Life preview that gives practical application to the text's theory, and ends with a description of clinical significance. Introduction to Veterinary Science remains a must have text for animal and veterinary oriented classrooms. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Animal studies is a growing interdisciplinary field which seeks to understand how humans study and conceive of other-than-human animals, and how these conceptions have changed over time, across cultures, and among various scholarly modes of inquiry. Until now, this growing field has lacked a comprehensive introductory text appropriate for new scholars. Animal Studies: An Introduction fills this deficiency, providing the first holistic survey of the field.

Science-Based Concerns

Introduction to Animal and Veterinary Anatomy and Physiology, 4th Edition

International Series of Monographs in Pure and Applied Biology

Sustainability, Challenges and Innovations

Critical Role of Animal Science Research in Food Security and Sustainability