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Animal Breeding 2nd Edition

Understanding Animal Breeding 2nd Edition

Practical information on the reproductive management of both thoroughbred and warmblood breeding operations prepares

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horse breeders to effectively breed even problem mares and stallions.

An experienced animal breeder, Rick Bourdon designed this book to be a modern, technologically up-to-date approach to animal breeding. Understanding Animal

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Breeding addresses the abstract concepts of animal breeding, presenting the necessary mathematics, but previous experience in genetics and statistics is not assumed. Well organized and readable, the book stresses application, then

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explains theory for an overall understanding of the material. Coverage explores the latest material on interactions and breeding objectives; performance testing; probabilities and inheritance; the Hardy-Weinberg equilibrium with multiple alleles;

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realized response to selection; breeding for uniformity; and biotechnology. For practicing animal breeders as well as those interested in breeding and agriculture.

The Encyclopedia of Meat Sciences is an impressive and

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important body of work. Prepared by an international team of experts, this reference work covers all important aspects of meat science from stable to table, including animal breeding, physiology and slaughter, meat preparation, packaging, welfare,

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and food safety, to name a few. This Encyclopedia further covers important topics such as food microbiology, meat in human nutrition, biotechnological advances in breeding and many more. The Encyclopedia of Meat Sciences is an invaluable

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resource to practitioners of meat science and students alike. Also available online via ScienceDirect – featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract

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databases, making navigation flexible and easy. For more information, pricing options and availability visit

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Foreword written by Rt. Hon. Helen Clark, Prime Minister of New Zealand Over 200 articles

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covering all aspects of meat science Reading lists at the end of each article provide further information into primary literature Various figures and tables illustrating the text and a color plate section in each volume Appeals to students, academics

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researchers and professionals working not only in meat science, but also food science, veterinary sciences, agricultural engineering and livestock management
Extensive cross-referencing
Growing awareness of environmental issues has led to

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increasing demand for goods produced from natural products, including natural fibres. The two-volume Handbook of natural fibres is an indispensable tool in understanding the diverse properties and applications of these important materials.

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Volume 1: Types, properties and factors affecting breeding and cultivation is an essential guide to a wide range of natural fibres, and highlights key techniques for their improvement. Part one reviews key types and fundamental properties of natural

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textile fibres. The production, identification and testing of a range of cotton, bast, silk and wool fibres are discussed, alongside bioengineered natural textile fibres. Part two goes on to explore the improvement of natural fibre properties and

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production through breeding and cultivation, beginning with a discussion of fibrous flax and cotton. Improved natural fibre production through the prevention of fungal growth is explored, along with the use of genetic engineering and

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biotechnology to enhance desirable characteristics. Finally, the wider impact of natural textile production is discussed, using wild silk enterprise programs as an example. With its distinguished editor and international team of expert

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contributors, the two volumes of the Handbook of natural fibres are essential texts for professionals and academics in textile science and technology. Provides an essential guide to a wide range of natural fibres and highlights key techniques for their

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improvement Reviews key types and fundamental properties of natural textile fibres, addressing the production, identification and testing of a range of cotton, bast, silk and wool fibres Explores the improvement of natural fibre properties and production

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through breeding and cultivation, beginning with a discussion of fibrous flax and cotton

Now in full color, Manual of Equine Reproduction, 3rd Edition provides a comprehensive look at the reproductive management of horses, including management of

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stallions, pregnant mares, and neonatal foals. Expert authors use a concise, practical approach in discussing improved therapies and treatments in equine breeding. You'll enhance your skills and knowledge with this book's detailed coverage of

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techniques used in reproductive examination, breeding procedures, pregnancy diagnosis, foaling, and reproductive tract surgery. A clinical emphasis includes a step-by-step format of possible scenarios from conception to breeding

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management. Practical information includes topics such as breeding with transported cooled or frozen semen, and caring for the broodmare and newborn foal. The organization of material corresponds to the course of study in veterinary

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school, so you can find topics easily. Chapter objectives and study questions at the beginning of each chapter guide you through the material and provide clear learning goals. Evaluation of Breeding Records chapter covers the importance of breeding

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records, and how to use them to evaluate stallion performance and optimize fertility. References are listed at the end of each chapter for further research and study. Full-color photographs and illustrations clearly depict procedures, and all drawings have

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been redrawn and improved. NEW Assisted Reproductive Technology chapter goes beyond embryo transfer. Updated content includes the latest advances in therapies and treatments. New content is added to two chapters, Reproductive Physiology of the

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Nonpregnant Mare and Manipulation of Estrus in the Mare. Thorough coverage of every aspect of equine reproduction provides a strong foundation for success in veterinary practice, including a discussion of the use of GnRH-analog deslorelin

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(Ovuplant) to hasten ovulation; aseptic technique for endometrial biopsy; use of transabdominal ultrasonography, especially in early pregnancy; determination of fetal gender by transrectal ultrasonography; aspiration testicular biopsy using a spring-

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loaded biopsy instrument; and procedure for surgical embryo transfer.

The aim of this manual is to improve the welfare of dairy cattle in tropical developing countries, and by doing so, optimise cow and herd

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performance. It gives the stockmen and farmers directly concerned with the cattle a better understanding of animal behaviour and the ways cattle communicate their comfort or distress. The book discusses normal cattle behaviour and

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shows how domestication and breeding can affect behaviour to achieve high levels of production of milk, live weight gain and fertility. Animal welfare is important for producers because it can affect the health, production and contentment of

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cows. Animal welfare practices which adversely affect cow and herd performance on tropical small holder dairy farms are identified. Advice is then given to change the animal's environment or modify a handler's technique to ensure cattle have the degree

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of comfort needed to achieve more profitable and sustainable systems of livestock farming. Cow Talk will be a beneficial resource for farmers who want to improve animal welfare, farm advisers who can assist farmers to improve their welfare practices,

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educators who develop training programs for farmers and dairy advisers, and other stakeholders in tropical dairy production such as local agribusiness, policy makers and research scientists. This volume and its companion Nonhuman Primates in Biomedical

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Research: Biology and Management represent the most comprehensive publications of their type on nonhuman primates. This volume addresses the diseases of nonhuman primates with an emphasis on the etiological factors, clinical signs,

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diagnostic pathology, therapy, and management. Its companion volume serves as a general reference for those who provide care for these animals and for those who use them in biomedical research.

Genetics for Cat Breeders, Second

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Edition covers the considerable advances in the practical application of genetics to cat breeding. This book is divided into nine chapters and begins with a discussion of the elementary principles of heredity. The subsequent chapters deal with

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the practical aspects of feline reproduction and development and the main factors in the practice of cat breeding. Other chapters examine the genetics of feline color and coat variation and breeds. These topics are followed by a review on the problem of

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genetic defects in cats. The last chapters considers the importance of record keeping in animal breeding, including providing an accurate record of familial relationship, information upon the phenotype characteristics and breeding

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performance, and a source of data for future decisions. This book will be of great value to biologists, cat breeders, and researchers.

[Animal Breeding and Genetics](#)
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Get practical answers from the only guide on the care of sheep, goats, and cervids! Authoritative yet easy to read, *Sheep, Goat and Cervid Medicine, 3rd Edition* covers all the latest advances in the field, including diseases and medical treatment, surgery, pain management, theriogenology, and

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nutrition. Clear instructions and hundreds of full-color photographs guide you step by step through common procedures including restraint for examination, administration of drugs, blood collection, and grooming. New to this edition is coverage of deer and elk medicine, reflecting the

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growing interest in these ruminants. Written by an expert team led by Dr. D.G. Pugh, this comprehensive reference is ideal for veterinarians and also for owners of sheep and goats. Clear writing style and consistent organization makes the book easy to understand and use, with disease

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chapters including pathogenesis, clinical signs, diagnosis, treatment, and prevention. Coverage of both surgery and medicine in each body systems chapter makes it easier to choose between treatment options for specific disorders. Superbly illustrated surgical procedures clearly

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demonstrate the steps to follow in performing medical and reproductive surgery. Diverse, expert contributors include the most experienced authorities, each providing current information on the care of valuable breeding stock as well as pets. Useful appendixes, now including veterinary

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feed directives, offer convenient access to information on drugs and drug dosages, fluid therapy, and normal values and conversions. Consistent, logical format in each body systems chapter makes information easy to find by beginning with physical examination and diagnostic

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procedures, followed by discussions of common diseases that involve the system. Comprehensive Feeding and Nutrition chapter covers diet evaluation, method of balancing rations, total parenteral nutrition, and examples of nutritious diets. Explanation of the differences in

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normal behavior between sheep and goats shows how they are not the same, and require different methods of treatment. NEW! Coverage of cervids has been added to chapters throughout the book, reflecting the growing popularity of deer and elk. NEW! Thorough content updates are

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made throughout the book and reflect the latest research evidence. NEW! 170 new clinical photos have been added. NEW! Anesthesia and Pain Management chapter includes a new section on pain management strategies, reflecting the emphasis on controlling pain in small ruminants.

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NEW! Expert Consult website offers an online version of the book, making it easy to search the entire book electronically. NEW! Two new authors are respected and well-known veterinary medicine experts and educators: Dr. Misty Edmondson and Dr. Thomas Passler.

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The Laboratory Mouse, Second Edition is a comprehensive book written by international experts. With inclusions of the newly revised European standards on laboratory animals, this will be the most current, global authority on the care of mice in laboratory research. This well-

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illustrated edition offers new and updated chapters including immunology, viruses and parasites, behavior, enrichment and care standards of laboratory mice across the life sciences, medical and veterinary fields. Features four-color illustrations with complete instruction

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on mouse surgery, anatomy, behavior and care of the mouse in laboratory research Offers additional chapters on new mouse strains, phenotyping of strains, bacteria and parasites, and immunology Includes the newly revised EU standards on care, as well as, comparisons to standards and

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regulations in the US and other countries

Discover how raising your own meat goats can be a fun and profitable endeavor. Offering plenty of tips for creating an economically viable operation and identifying niche markets for your products, Storey's

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Guide to Raising Meat Goats shows you how to care for a thriving and productive herd full of healthy and happy animals.

This book attempts to describe applied breeding methods for different domestic animal species as currently implemented. In this book, brief history

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of population genetics, domestication of livestock species, classification of breeds, economic characteristics of different livestock species & poultry and their importance, basic statistics, qualitative and quantitative inheritance, gene and genotype frequency and factors influencing gene

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frequency, values and means of population, methods of estimation and uses of heritability and repeatability, correlations, selection, response to selection, basis of selection, progeny testing, open nucleus breeding system, sire evaluation, methods of selection, breeding or mating systems,

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heterosis or hybrid vigor definitions and current livestock and poultry breeding programmes have been discussed in different s. The subject matter has been dealt with in a logical sequence so that the reader is conveyed from simple to more complex interpretation with relative

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ease. It is felt that the reader which are likely to comprise mostly of graduate and post graduate student of animal breeding and researcher will be able to get a deeper insight and better perceptions into the realm of the dynamic science of animal breeding.

"It is essential reading for students and

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practitioners in animal welfare and animal science, and will also be of interest to readers in meat, veterinary and food sciences, and applied ethology."--BOOK JACKET.

The understanding of pig genetics and genomics has advanced significantly in recent years, creating fresh insights

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into biological processes. This comprehensive reference work discusses pig genetics and its integration with livestock management and production technology to improve performance. Fully updated throughout to reflect advances in the subject, this new edition also includes new

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information on genetic aspects of domestication, colour variation, genomics and pig breeds, with contributions from international experts active in the field.

The prediction of producing desirable traits in offspring such as increased growth rate, or superior meat, milk and

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wool production is a vital economic tool to the animal scientist.

Summarising the latest developments in genomics relating to animal breeding values and design of breeding programmes, this new edition includes models of survival analysis, social interaction and sire and dam

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models, as well as advancements in the use of SNPs in the computation of genomic breeding values.

Tracking Animal Migration with Stable Isotopes provides a consolidated overview of the current knowledge of stable isotopes in terrestrial migration research questions. It offers ecologists

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and conservation biologists provide a practical handbook for those considering using stable isotopes in their migration research. Presents information for readers to understand how to apply isotopic methods for tracking Critical information on areas for future research Practical guidelines

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and discussions of sample collection,
sample preparation, and data analysis
Enhanced understanding of data and
statistical analysis in isotope-based
studies of migratory animals

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Looking for the ideal, perfectly compatible canine companion for your family? Your search ends here. From spaniels to sheepdogs, The Complete Dog Breed Book is all you need to find the perfect pet for your family. Fully

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illustrated and featuring over 400 of the world's best-loved breeds, this comprehensive guide offers expert advice on keeping, training, and caring for your beloved dog. The book's special Q&A selector charts help you make the right choice as per your

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lifestyle and convenience. Clear and practical instructions on care cover the essential aspects of looking after a dog, including handling, grooming, nutrition, health, and exercise. The visual training program features step-by-step photographic sequences,

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explaining the specifics of basic obedience. Tried-and-tested notes on how to identify and prevent common behavioral problems provide a fascinating insight into the behavior of dogs and how we interact with them. The Complete Dog Breed Book is a

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one-stop manual to help you become the owner of a happy, healthy, and well-behaved dog.

For Animal Breeding and Genetics courses. An experienced educator in animal breeding, Rick Bourdon designed this book to be a modern,

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technologically up-to-date approach to animal breeding that is less intimidating to students than competing texts. The book is meant to be a learning text or guide as opposed to simply a reference. Understanding Animal Breeding addresses the abstract

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concepts of animal breeding, presenting the necessary mathematics, but previous experience in genetics and statistics is not assumed. Well organized and readable, the book stresses application, then explains theory for an overall understanding of

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the material.

The revised edition of the bestselling textbook, covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the

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fundamental principles and advanced techniques of modern plant breeding. Combining both classical and molecular tools, this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and

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plants, particularly in response to the increasing demands to of growing populations. Illustrated chapters cover a wide range of topics, including plant reproductive systems, germplasm for breeding, molecular breeding, the common objectives of plant breeders,

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marketing and societal issues, and more. Now in its third edition, this essential textbook contains extensively revised content that reflects recent advances and current practices.

Substantial updates have been made to its molecular genetics and breeding

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sections, including discussions of new breeding techniques such as zinc finger nuclease, oligonucleotide directed mutagenesis, RNA-dependent DNA methylation, reverse breeding, genome editing, and others. A new table enables efficient comparison of an

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expanded list of molecular markers, including Allozyme, RFLPs, RAPD, SSR, ISSR, DAMD, AFLP, SNPs and ESTs. Also, new and updated “Industry Highlights” sections provide examples of the practical application of plant breeding methods to real-world

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problems. This new edition: Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field, such as CRISPR genome editing and grafting on GM stock Includes numerous illustrations and end-of-chapter self-

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assessment questions, key references, suggested readings, and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and

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professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science, particularly those studying plant breeding, biotechnology, and genetics.

New Technologies in Animal Breeding

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looks at new reproductive technologies in breeding domestic animals, such as sex selection, frozen storage of oocytes and embryos, in vitro fertilization and embryo culture, amphibian nuclear transplantation, parthenogenesis, identical twins and cloning in

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mammals, and gene transfer in mammalian cells. It summarizes the state-of-the art and offers perspectives on future directions for several animal industries of great importance in food production, including artificial insemination, embryo transfer, poultry

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breeding, and aquaculture. Organized into five sections encompassing 14 chapters, this book begins with an overview of animals in society and perspectives on animal breeding. It then discusses the animal industries that are heavily dependent on

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reproductive technology, including those engaged in cloning, selfing, aquaculture, artificial insemination, and embryo transfer. It also explains the developing technologies as well as their potential applications and impacts on animal production, along with

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special economic considerations, such as the benefits of reproductive management, synchronization of estrus, and artificial insemination of beef cattle and sheep. The final chapter considers biomedical and agricultural research, implementation of new

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technologies in animal breeding, and research in animal reproduction. This book is an essential reference for scientists and researchers interested in animal science and animal reproduction.

The Science of Animal Growth and

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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

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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

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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

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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

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

Behavior is shaped by both genetics

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and experience--nature and nurture. This book synthesizes research from behavioral genetics and animal and veterinary science, bridging the gap between these fields. The objective is to show that principles of behavioral genetics have practical applications to

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agricultural and companion animals. The continuing domestication of animals is a complex process whose myriad impacts on animal behavior are commonly under-appreciated. Genetic factors play a significant role in both species-specific behaviors and

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behavioral differences exhibited by individuals in the same species.

Leading authorities explore the impact of increased intensities of selection on domestic animal behavior. Rodents, cattle, pigs, sheep, horses, herding and guard dogs, and poultry are all included

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in these discussions of genetics and behavior, making this book useful to veterinarians, livestock producers, laboratory animal researchers and technicians, animal trainers and breeders, and any researcher interested in animal behavior. Includes four new

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chapters on dog and fox behavior, pig behavior, the effects of domestication and horse behavior Synthesizes research from behavioral genetics, animal science, and veterinary literature Broaches fields of behavior genetics and behavioral research

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Includes practical applications of principles discovered by behavioral genetics researchers Covers many species ranging from pigs, dogs, foxes, rodents, cattle, horses, and cats

An essential resource for both students and practitioners, this comprehensive

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text provides practical, up-to-date information about normal reproduction and reproductive disorders in horses, cattle, small ruminants, swine, llamas, and other livestock. Featuring contributions from experts in the field, each section is devoted to a different

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large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females. Key topics include the evaluation of breeding soundness, pregnancy diagnosis, diagnosis and treatment of

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infertility, abortion, obstetrics, surgery of the reproductive tract, care of neonates, and the latest reproductive technology. Includes coverage of all large animal species. All sections provide a review of clinically pertinent reproductive physiology and anatomy

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of males and females of each species. Complete coverage of the most current reproductive technology, including embryo transfer, estrous synchronization, and artificial insemination. A new section on alternative farming that addresses

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reproduction in bison, elk, and deer. New to the equine section: stallion management, infertility, and breeding soundness evaluation. New to the bovine section: estrous cycle synchronization, reproductive biotechnology, ultrasonographic

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determination of fetal gender, heifer development, and diagnosis of abortion. New to the porcine section: artificial insemination, boar/stud management, diseases of postpartum period, and infectious disease control. New to the llama section: infectious

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disease and nutrition.

AAP Prose Award Finalist 2018/19

Management of Animal Care and Use
Programs in Research, Education, and
Testing, Second Edition is the
extensively expanded revision of the
popular Management of Laboratory

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Animal Care and Use Programs book published earlier this century.

Following in the footsteps of the first edition, this revision serves as a first line management resource, providing for strong advocacy for advancing quality animal welfare and science

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worldwide, and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current

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breadth and depth of the field with applicability to an international audience. Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field. The book: - Emphasizes the importance of

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developing a collaborative culture of care within an animal care and use program and provides information about how behavioral management through animal training can play an integral role in a veterinary health program - Provides a new section on

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Environment and Housing, containing chapters that focus on management considerations of housing and enrichment delineated by species - Expands coverage of regulatory oversight and compliance, assessment, and assurance issues and processes,

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including a greater discussion of globalization and harmonizing cultural and regulatory issues - Includes more in-depth treatment throughout the book of critical topics in program management, physical plant, animal health, and husbandry. Biomedical

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research using animals requires administrators and managers who are knowledgeable and highly skilled. They must adapt to the complexity of rapidly-changing technologies, balance research goals with a thorough understanding of regulatory

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requirements and guidelines, and know how to work with a multi-generational, multi-cultural workforce. This book is the ideal resource for these professionals. It also serves as an indispensable resource text for certification exams and credentialing

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boards for a multitude of professional societies Co-publishers on the second edition are: ACLAM (American College of Laboratory Animal Medicine); ECLAM (European College of Laboratory Animal Medicine); IACLAM (International Colleges of

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Laboratory Animal Medicine); JCLAM (Japanese College of Laboratory Animal Medicine); KCLAM (Korean College of Laboratory Animal Medicine); CALAS (Canadian Association of Laboratory Animal Medicine); LAMA (Laboratory Animal

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Management Association); and IAT
(Institute of Animal Technology).

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The seminal reference on the care of laboratory and captive animals, The UFAW Handbook on the Care and

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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

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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

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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

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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

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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

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welfare science and technology.

For details of all of the titles in the series see <http://www.wiley.com/go/ufaw>

Genetics and Breeding for Disease Resistance of Livestock is a solid resource that combines important

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information on the underlying genetic causes and governing factors for disease resistance in food animals and applications for breeding purposes. It describes genomics at each species level to help researchers and students understand disease resistance and

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immunology using genomics and its application in breeding for disease resistance. This useful reference makes it easy for readers to understand and undergo further research in immunology and disease resistance for livestock. It includes novel applications

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and research material that is ideal for students, teachers, academicians and researchers. Presents basic principles and protocols to describe research methodologies through diagrammatic illustrations with figures, flow charts, examples, and references Covers

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various disease occurrences in livestock and the methodologies available to identify the various pathogens responsible for these diseases Includes advanced breeding techniques and practical applications
Sorghum and Millets: Chemistry,

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Technology and Nutritional Attributes, Second Edition, is a new, fully revised edition of this widely read book published by AACCC International. With an internationally recognized editorial team, this new edition covers, in detail, the history, breeding,

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production, grain chemistry, nutritional quality and handling of sorghum and millets. Chapters focus on biotechnology, grain structure and chemistry, nutritional properties, traditional and modern usage in foods and beverages, and industrial and non-

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food applications. The book will be of interest to academics researching all aspects of sorghum and millets, from breeding to usage. In addition, it is essential reading for those in the food industry who are tasked with the development of new products using the

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grains. Updated version of the go-to title in sorghum and millets with coverage of developments from the last two decades of research Brings together leading experts from across the field via a world leading editorial team Published in partnership with the

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AACCI - advancing the science and technology of cereals and grains
Tilapia Culture, Second Edition, covers the vital issues of farmed tilapia in the world, including their biology, environmental requirements, semi-intensive culture, intensive culture

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systems, nutrition and feeding, reproduction, seed production and larval rearing, stress and disease, harvesting, economics, trade, marketing, the role of tilapia culture in rural development and poverty eradication, and technological

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innovations in, and the environmental impacts of, tilapia culture. In addition, the book highlights and presents the experiences of leading countries in tilapia culture, thus making it ideal for tilapia farmers and researchers who seek the most relevant research and

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information. The new second edition not only brings the most updated information within each chapter, but also delivers new content on tilapia transfers, introductions and their impacts, the use of probiotics and other additives in tilapia culture, tilapia

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trade, including marketing, and sustainability approaches and practices, such as management practices, ecosystem approaches to tilapia culture, and value chain analyses of tilapia farming. Presents the biology of tilapia, including taxonomy, body

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shapes, geographical distribution, introductions and transfers, gut morphology, and feeding habits Covers semi-intensive tilapia culture in earthen ponds, tanks, raceways, cages, recirculating systems, and aquaponics Provides the latest information on

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brood stock management, production of monosex tilapia, seed production, and larval rearing under different culture systems Highlights the most common infectious and non-infectious diseases affecting farmed tilapia, with a full description of disease symptoms

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and treatment measures Provides an in-depth exploration of tilapia economics, trade and marketing

The leopard gecko has fast become the reptilian version of the parakeet or goldfish. Considered to be the first domesticated species of lizard, the

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leopard gecko is attractive, perfectly sized, and easy to breed. Leopard Gecko Manual takes a close look at all the characteristics that have made these attractive lizards so amazingly popular in the pet world. Written by a team of herpetoculture experts and

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gecko specialists, this up-to-date and authoritative guide provides reliable guidelines for keepers who wish to add a gecko to their vivarium and maintain their pet in excellent health and condition. This second edition is revised and expanded to include new

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sections on Gecko nutrition and feeding, housing, breeding, and banded Geckos. Inside the Leopard Gecko Manual: How to select leopard geckos as pets or for breeding Understanding the anatomy and behavior of these fascinating lizards Feeding your

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leopard gecko a nutritionally sound diet, with the latest insights on feeder insects and prepared foods How to design and maintain the ideal naturalistic habitat for your leopard gecko Detailed information on all aspects of breeding, egg-laying, and

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incubation What you need to know
about skin shedding cycles and tail loss
Recognizing signs of disease and how
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eublepharids
With laboratory animals, especially

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rabbits, playing such an important role in biomedical research, the humane care of these animals is an ongoing concern. The Laboratory Rabbit, Second Edition presents basic information and common procedures in detail to provide a quick reference

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for caretakers, technicians, and researchers in a laboratory setting. Now in full color, the second edition of this book illustrates management practices and technical procedures with numerous figures and tables. It includes updated tables on anesthetic agents,

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methods of euthanasia, recommended needle sizes, injection sites, approximate values for injection, and sedative and immobilization agents. Plastic comb-bound for convenient and frequent use, this guide also provides sources and suppliers of additional

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information on rabbits, feed, and sanitation supplies.

Air Emissions from Animal Feeding Operations: Current Knowledge, Future Needs discusses the need for the U.S. Environmental Protection Agency to implement a new method for

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estimating the amount of ammonia, nitrous oxide, methane, and other pollutants emitted from livestock and poultry farms, and for determining how these emissions are dispersed in the atmosphere. The committee calls for the EPA and the U.S. Department of

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Agriculture to establish a joint council to coordinate and oversee short - and long-term research to estimate emissions from animal feeding operations accurately and to develop mitigation strategies. Their recommendation was for the joint

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council to focus its efforts first on those pollutants that pose the greatest risk to the environment and public health. *Biotechnology for Beginners, Second Edition*, presents the latest information and developments from the field of biotechnology—the applied science of

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using living organisms and their by-products for commercial development—which has grown and evolved to such an extent over the past few years that increasing numbers of professionals work in areas that are directly impacted by the science. For

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the first time, this book offers an exciting and colorful overview of biotechnology for professionals and students in a wide array of the life sciences, including genetics, immunology, biochemistry, agronomy, and animal science. This book also

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appeals to the lay reader without a scientific background who is interested in an entertaining and informative introduction to the key aspects of biotechnology. Authors Renneberg and Demain discuss the opportunities and risks of individual technologies and

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provide historical data in easy-to-reference boxes, highlighting key topics. The book covers all major aspects of the field, from food biotechnology to enzymes, genetic engineering, viruses, antibodies, and vaccines, to environmental

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biotechnology, transgenic animals, analytical biotechnology, and the human genome. This stimulating book is the most user-friendly source for a comprehensive overview of this complex field. Provides accessible content to the lay reader who does not

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***This book presents state-of-
the-art, authoritative chapters***

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on contemporary issues in the broad areas of quantitative genetics, genomics and plant breeding. Section 1 (Chapters 2 to 12) emphasizes the application of genomics, and genome and epigenome

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editing techniques, in plant breeding; bioinformatics; quantitative trait loci mapping; and the latest approaches of examining and exploiting genotype-environment interactions. Section 2

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(Chapters 13 to 20) represents the intersection of breeding, genetics and genomics. This section describes the use of cutting-edge molecular breeding and quantitative genetics techniques in wheat,

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rice, maize, root and tuber crops and pearl millet. Overall, the book focuses on using genomic information to help evaluate traits that can combat biotic/abiotic stresses, genome-wide association

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mapping, high-throughput genotyping/phenotyping, biofortification, use of big data, orphan crops, and gene editing techniques. The examples featured are taken from across crop science

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research and cover a wide geographical base. This has been the indispensable companion of chicken breeders since its introduction in 1949. Chapters include the genetics of

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*plumage, egg production,
body size, disease resistance,
and much more.*

(Animals/Pets)

*Bovine Reproduction is a
comprehensive, current
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information on all aspects of reproduction in the bull and cow. Offering fundamental knowledge on evaluating and restoring fertility in the bovine patient, the book also places information in the

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context of herd health where appropriate for a truly global view of bovine theriogenology. Printed in full color throughout, the book includes 83 chapters and more than 550 images, making it the most

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