

## **Sexing Semen The Opportunity Has Arrived**

***Agriculture is the lifeblood of the majority of people in Africa. It is not just a provider of food, it is a way of life for rural people.***

***Whilst subsistence farming is the most practiced form of agriculture, there are many parts of Africa where agriculture is highly developed and progressive. In many instances it is the very diversity of agricultural practices that raises complex problems and issues. These issues often manifest themselves in ways that create***

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***ethical dilemmas for farmers, policy-makers, academics, politicians and the general lay-person. In particular, the role of biotechnology in African agriculture has become a contentious issue. Some people hold the view that biotechnology will solve the food shortages experienced in many parts of Africa, however, there is an opposing viewpoint that Africa may become a dumping ground for technology that has not been acceptable in other parts of the world. The ethical issues in agriculture in Africa do not focus only on biotechnology. The role of nutrition in the persistence of HIV/AIDS is highly debated and***

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***sometimes controversial. Land-related issues also generate heated debates in communities and amongst policy-makers. The single core that runs through all of these and many other related issues is, what are ethically acceptable solutions to these problems? This book attempts, in simple, unambiguous terms, to discuss the most important issues in African agriculture that have an ethical thread.***

***A guide to calf management authored by vets who also have their own herd. The focus is on rearing an animal with optimal health for enhanced productivity with a focus on welfare and best practice. The book employs a***

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***lifecycle approach to management, seeing the calf through the pre-partum period to 4 months of age. Topics covered include feeding strategies and feeding behaviour, hygiene, weaning, grazing, husbandry advice, and disease management. The approach throughout is of animal and keeper working together. The information presented has a solid research foundation and is evidence-based and up-to-date. Practical tips from the authors' own experience are also included.***

***"Veterinary Reproduction and Obstetrics has been the standard reference textbook for veterinary***

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***students for many years, as well as for students of animal science and related disciplines; in addition it has also been a useful reference source for the practicing veterinary surgeon. The new edition builds on the success of the previous edition covering normal reproduction and reproductive disorders and diseases in the common and less common domesticated species (llamas, alpacas, camels). The book has been completely revised with full colour throughout to include recent developments in reproductive biology and endocrinology, as well as the new knowledge on the causes and treatment of***

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***reproductive disease." "This is a reference text that has been refreshed well and warrants a place on practice bookshelves." - Veterinary Record, Feb 2011***  
***Classic text reference Covering all aspects of reproduction and obstetrics in all common and less common domestic species***  
***Only book covering full range of domestic animals Practical clinical approach throughout***  
***Thorough updating throughout to reflect changes in practice since the last edition***  
***New authors and contributors to ensure contemporary and international approach***  
***(contributors from Finland, the Netherlands, USA, Denmark an***

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***New Zealand) Full colour  
throughout***

***This edition is expanded to  
include more on animal welfare,  
sustainability and production  
systems in low and middle  
income countries, including  
smallholder production systems.***

***- Has undergone a thorough  
review of all the existing  
chapters, with new content on  
the future role of cattle. -***

***Contains quality colour  
illustrations, so that key  
information can be found at a  
glance. - Is beautifully written  
with many examples and  
pointers for further information. -  
Tackles key issues of  
sustainability and the***

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***requirement for increased  
production.***

***Why Livestock Genomics for  
Developing Countries offers  
Opportunities for Success  
Decision Support Systems  
Biotechnologies Applied to  
Animal Reproduction  
Principles of Cattle Production,  
3rd Edition***

***Reproductive Biotechnologies  
The Place of Farm Animals in  
Sustainable Agriculture***

Animal Agriculture:  
Sustainability,  
Challenges and  
Innovations discusses  
the land-based  
production of high-  
quality protein by

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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

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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

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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

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Provides practical solutions on how to solve the current and future problems that face animal agriculture worldwide

Skin is the largest multi-layered external defence system that protects the body from pathogenic invasion. A cutaneous wound means disruption in the continuity of skin.

Wound assessment is the key in the care of patients with wounds, allowing us to reach an accurate diagnosis,

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raise the short-and long-term goals, and determine the appropriate interventions at each stage. A complete wound assessment must include the wound morphometry, attributes of the wound like duration, blood flow, infection, oedema, inflammation, host factors and environmental factors that impact on optimum wound management. It is essential that the measurement tool used is highly accurate and

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repeatable. Digital imaging and software (Digital planimetry) with smart phones integrating digital camera and software applications are emerging as inexpensive, easy-to-use, reliable and accurate tools for wound measurements. Optical features of skin components can be non-invasively assessed for estimating the severity of wounds, the healing potential and the healing rate.

When considering the

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physiological systems of the body, the degree of species variation within the reproductive system compared to other systems is remarkable. Furthermore, it is essential that researchers, educators, and students alike remain aware of the fundamental comparative differences in the reproductive biology of domestic species. Written by renowned scientists in their respective fields,

Comparative Reproductive

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Biology is a comprehensive reference on the reproductive systems of domestic species. The book offers both broad and specific knowledge in areas that have advanced the field in recent years, including advances in cell and molecular biology applied to reproduction, transgenic animal production, gender selection, artificial insemination, embryo transfer, cryobiology, animal cloning and many others.

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This seminal text includes topics in animal reproduction that are usually only found as part of other books in animal science such as anatomy, histology, physiology, radiology, ultrasonography, and others. Comprehensive reference of the reproductive systems of domestic species Written by a team of top researchers Richly illustrated throughout, including 12 pages of color images  
Greenhouse gas emissions

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by the livestock sector could be cut by as much as 30 percent through the wider use of existing best practices and technologies. FAO conducted a detailed analysis of GHG emissions at multiple stages of various livestock supply chains, including the production and transport of animal feed, on-farm energy use, emissions from animal digestion and manure decay, as well as the post-slaughter transport, refrigeration

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and packaging of animal products. This report represents the most comprehensive estimate made to-date of livestock's contribution to global warming as well as the sectors potential to help tackle the problem. This publication is aimed at professionals in food and agriculture as well as policy makers.

Sustainability,  
Challenges and  
Innovations  
Success in Artificial  
Insemination

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Factors Affecting Calf  
Crop

Practical Atlas of  
Ruminant and Camelid  
Reproductive

Ultrasonography

Genetic Improvement of  
Farmed Animals

Handbook of Calf Health  
and Management

*This comprehensive volume focuses on recent trends and new technologies used in the management of reproduction in major farm animals, focusing on both males and females of bovine, equine, and porcine species. With chapters written by*

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*scientists who specialize in their respective topics, the volume presents a selection of different technologies that have been developed to assure reproductive success by improving reproductive efficiency, generating germplasm banks, and maintaining genetic diversity in cattle, horses, and pigs. In the last decade, reproductive technologies in veterinary medicine have progressed considerably, providing high profitability to livestock farms. This book provides basic and applied information on the most*

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*used reproductive technologies in bovine, equine, and porcine species for academics, scientists, and veterinarians. The volume discusses reproductive and postpartum management, reproductive ultrasound, sperm management, egg retrieval, artificial insemination, embryo transfer, nutrition, genetics, and certain clinical aspects, such as endocrinology and robustness of reproductive systems.*

*Pacing through second decade of the 21th century,*

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*more computer users are widely adopting technology-based tools and information-enriched databases to focus on supporting managerial decision making, reducing preventable faults and improving outcome forecasting. The goal of decision support systems (DSS) is to develop and deploy information technology-based systems in supporting efficient practice in multidiscipline domains. This book aims to portray a pragmatic perspective of applying DSS in the 21th century. It covers diverse*

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*applications of DSS, primarily focusing on the resource management and outcome forecast. Our goal was to provide the broad understanding of DSS and illustrate their practical applications in a variety of fields related to real life. Speckle study constitutes a multidisciplinary area with inherent complexities. In order to conquer challenges such as the variability of samples and sensitive measurements, researchers must develop a theoretical and statistical understanding of both*

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*biological and non-biological metrology using dynamic speckle laser. Dynamic Laser Speckle and Applications discusses the main methodologies used to analyze biospeckle phenomena with a strong focus on experimentation. After establishing a theoretical background in both speckle and biospeckle, the book presents the main methodologies for statistical and image analysis. It then deals with the concept of frequency decomposition before moving on to a discussion of fuzzy methods*

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*to treat dynamic speckle data. The book dedicates two sections to applications, including agricultural approaches. Additional features include photo images of experiments and software to aid in easy start-up of dynamic speckle usage. A systematic approach to new dynamic speckle laser phenomena, this book provides the physical theory and statistical background needed to analyze images formed by laser illumination in biological and non-biological samples.*

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*The farming of animals for meat and milk confronts a stark dilemma. While world demand from a growing and more affluent human population is increasing rapidly, there are strong counter-arguments that we should eat less meat and pay more attention to environmental protection, animal welfare and human health and well-being. The aim of this book is to identify and explain the causes and contributors to current problems in animal husbandry, especially those related to 'factory farming',*

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*and advance arguments that may contribute to its successful re-orientation. Husbandry is considered in its broadest sense, namely the productive and sustainable use of the land for the good of all (plants, humans and other animals). The first part of the book outlines principles and arguments necessary to engage with current problems: depletion of natural resources and destruction of environment, animal welfare, food and health, fair trade and sharing resources. These*

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*arguments are illustrated by examples and sufficient evidence to justify the argument without obscuring the message. The second part presents a series of constructive proposals for change and development in animal husbandry, both in the developed world and subsistence agriculture. These include more integrated crop and livestock farming systems, the ethics of animal welfare and environmental management, and the evolution of a new social contract whereby the rights*

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*of the people to a fair share of good, safe food and a green and pleasant land are matched by a shared responsibility to preserve these things.*

*Advances in Animal Experimentation and Modeling*

*A Global Assessment of Emissions and Mitigation Opportunities*

*New Technologies in Animal Breeding*

*Biotechnological Applications in Buffalo Research*

*Advances in Animal Biotechnology*

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*Textbook of Animal  
Biotechnology*

Sex Chromosomes—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Y Chromosome in a concise format. The editors have built Sex Chromosomes—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Y Chromosome in this book to be deeper than what you can access anywhere else, as well

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as consistently reliable, authoritative, informed, and relevant. The content of Sex Chromosomes—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.co>

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Rearing young stock for replacement heifers is probably one of the least well understood and practised aspects of herd and feeding management on dairy farms throughout the world, particularly on small holder dairy farms in the tropics. This book addresses all the major concerns of the small holder dairy farmer in Asia. It shows how to attain optimal growth in young stock, so that as cows, they can calve at an appropriate early age at the lowest cost and promptly substitute for any cows culled from the milking herd. This

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provides continuing returns on the investments of feed, labour and other farm resources. Low reproductive rates and high calf mortality are the major causes of reproductive wastage. This has a direct bearing on culling and replacement strategies and on genetic improvement. In many tropical countries, calf mortality can be as high as 50%. In some areas this can be due to climatic stress on temperate or crossbred stock. While climatic stress compounds the other hazards of calf life, high calf mortality is usually due to diseases and poor feeding management.

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Rearing Young Stock on Tropical Dairy Farms in Asia encourages the small holder dairy farmer to maintain their investment in replacement heifers and gives them the tools necessary to achieve realistic targets for mortalities, live weight gain, mating age, and age and live weight at first calving. It is a companion volume to three previous manuals written by John Moran: Tropical Dairy Farming, Business Management for Tropical Dairy Farmers and Managing High Grade Dairy Cows in the Tropics. This book comprehensively reviews the advancements in

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biotechnological applications for the enhanced production and conservations of buffalo (*Bubalus bubalis*). The book discusses developments in assisted reproduction to improve productivity and the produce novel products for applications to human health and nutrition. The initial chapters of the book discuss the global distribution and domestications of buffalo, and nutritive values of buffalo milk, while the subsequent sections examine the applications of the genome-wide association traits to identify potential genetic variants affecting important economic traits. It identifies

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predictive biomarkers for postpartum or peripartum diseased-state and presents potential protein biomarkers for the diagnosis of early pregnancy in buffalo. Lastly, it discusses recent scientific developments such as induced pluripotent stem cells, spermatogonial stem cells, somatic cell nuclear transfer, and buffalo as a model for human biomedical research. This book is a useful source to students, academicians, researchers, and policymakers who are involved in buffalo science and industry. This textbook provides an integrated view of beef cattle

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production with a systems based approach, discussing the interrelationships of a broad range of aspects with the overall goal of optimising cattle production. This book provides the background to allow cattle producers to match their production environments with genetic, management, and marketing opportunities for sustainable beef production globally. This logic and resulting considerations can then be tailored to address specific regional challenges and opportunities worldwide. Considerations and examples for extreme situations will be provided, such as very small

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herds, very large herds,  
communal-group situations,  
and minimal artificial input  
systems.

Agricultural Research  
Prospects for Sexing  
Mammalian Sperm  
Sex Chromosomes—Advances  
in Research and Application:  
2013 Edition  
Current Trends and Practical  
Applications for Reproductive  
Management  
Beef Cattle Production Systems  
Animal Husbandry Regained

*Genetic Improvement of  
Farmed Animals provides a  
thorough grounding in the  
basic sciences underpinning  
farmed animal breeding.*

*Relating science to*

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*practical application, it covers all the major farmed animal species: cattle, sheep, goats, poultry, pigs and aquaculture species.*

*PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT [e-reference@taylorandfrancis.com](mailto:e-reference@taylorandfrancis.com) Containing case studies that complement material presented in the text, the vast range of this definitive*

*Encyclopediaencompasses animal physiology, animal growth and development, animal behavior, animal reproduction and breeding, alternative approaches to animal maintenance, meat science and muscle biology, farmed animal welfare and*

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*bioethics, and food safety. With contributions from top researchers in their discipline, the book addresses new research and advancements in this burgeoning field and provides quick and reader-friendly descriptions of technologies critical to professionals in animal and food science, food production and processing, livestock management, and nutrition.*

*Factors Affecting Calf  
CropCRC Press*

*The latest information on heifer development in beef cattle for the food animal practitioner! Topics include rebuilding the US cowherd,*

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*physiology and endocrinology  
of puberty, nutritional  
development and the target  
weight debate, long-term  
reproductive health, effect  
of prenatal programming on  
development, economics of  
development, synchronization  
of estrus and ovulation,  
post breeding heifer  
management, management  
strategies for adding value  
to heifers, and more!*

*Rearing Young Stock on  
Tropical Dairy Farms in Asia  
Artificial Insemination in  
Farm Animals  
Beltsville Area Research  
Highlights  
Animal Agriculture  
Comparative Reproductive  
Biology*

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*Microfluidics for Assisted  
Reproduction in Animals*

This book describes the fundamentals of microfluidics and fabrication methods of microfluidic devices that can be adopted for animal-assisted reproduction. It presents microfluidic methods for sorting highly fertile spermatozoa. This book also describes the application of microfluidics in vitro fertilization and embryo culture. It discusses the use of microfluidics in sperm sexing and the cryopreservation of animal gametes and embryos. Lastly, the book examines the potential opportunities of microfluidics in infertility diagnosis, sperm selection and guidance, oocyte selection, insemination, and embryo monitoring.

Artificial insemination has long been

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the primary tool towards genetic improvement in many domestic animals. Knowledge based decision are increasingly becoming important in this industry. Scientific publications are having greater role in the contribution of research outputs towards an efficient utilization reproductive phenomenon. This book on improving the success of AI through improving the quality of semen and related diagnostics is just one for interested readers.

This two-volume textbook provides a comprehensive overview on the broad field of Animal Biotechnology with a special focus on livestock reproduction and breeding. The reader will be introduced to a variety of state-of-the-art technologies and emerging genetic tools and their applications in animal production.

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Also, ethics and legal aspects of animal biotechnology will be discussed and new trends and developments in the field will be critically assessed. The two-volume work is a must-have for graduate students, advanced undergraduates and researchers in the field of veterinary medicine, genetics and animal biotechnology. This first volume mainly focuses on artificial insemination, embryo transfer technologies in diverse animal species and cryopreservation of oocytes and embryos.

Factors Affecting Calf Crop summarizes the latest information available from leading cattle physiologists and geneticists regarding factors known to influence the production of live calves at weaning. You get practical

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information on management techniques for improving reproduction efficiency in the herd. You'll also learn about the functioning of the reproductive system and how this may affect reproductive processes in the cow herd. Managers will benefit from a clearer understanding of the factors known to limit efficient reproduction, while veterinarians and other professionals who advise cattlemen will appreciate the substantial reference material and color photographs for defining cow condition scores. Color photographs are also used to illustrate the discussions of testicular thermographies and their applications. Other chapters in the book cover developments in improving reproductive performance of the replacement heifer, the brood

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cow, and the bull. Topics on reproduction include physiology/endocrinology, the use of growth promotants, genetics and physiological and economic considerations in selecting the age to breed heifers, heritability of fertility, length of the breeding season, prepartum and postpartum nutrition, nursing by the calf, cloning of embryos, and much more.

A Guide to Best Practice Care for Calves

The Cost of Producing Milk

ScholarlyBrief

Opportunities in Biology

Hearings Before the Subcommittee on Investigations and Oversight of the Committee on Science and Technology, U.S. House of Representatives, Ninety-seventh Congress, Second Session, June 9,

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July 28, 1982

Exploration in Laboratory Animal Sciences Understanding Life Phenomena updates our knowledge about the newer technologies such as molecular biology, genomics including sequencing, proteomics, transcriptomics, cell culture, stem cell culture, transgenesis and their translation to understand systematics and phylogeny of laboratory animals at molecular level. In seven sections Exploration in Laboratory Animal Sciences Understanding Life Phenomena resolves issues of conservation, applications in environment

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monitoring, production of drugs and others. Comparative research has enabled use of domestic animal models that translate the advances in basic biosciences to the schemes for human welfare including medicine. Molecular geneticists are unravelling the complexities of mammalian genes and the field of biotechnology is maturing at a fast pace. Additionally, research focused on immunology and animal behavior offer new insight into ways of enhancing animal welfare. The rise in consumption of animal proteins in addition to the challenges of sustaining our natural resources

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has given animal scientists a vast array of opportunities to engage in integrative systems-based research for meeting the challenges that behold us.

Exploration in Laboratory Animal Sciences Understanding Life Phenomena also discusses the manipulation of animals as factories for the production of safe foods, drugs, and sensors and others to meet the contemporary challenges faced by mankind in the new world order created by pandemic of Covid 19. It also includes several chapters on the causation and management of certain diseases and impact of microbes on life.

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Provides insight to newer and futuristic technologies to understand disease process and drug design by animal models  
Addresses a wide variety of species and covers a wide variety of topics (such as animal species, the laboratory setting, regulatory guidelines, and ethical considerations) to fully prepare for work with all types of animals  
Gives a perspective on laboratory animal use that allows to explain the benefits of animal use as required by veterinary technology program accreditation procedure Includes examples of animal biotechnological techniques

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(including stem cell and tissue engineering) for their applications to humanity Offers new insight into ways of enhancing animal welfare by the inclusion of research results focused on immunology and laboratory animal behavior Animal biotechnology is an integral component of agriculture. Supported with over 50 figures and more than 30 tables, this textbook is a must have for undergraduates and postgraduates of various agriculture and animal husbandry academia, teachers, professionals, and researchers in basic as well as applied animal

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sciences including biotechnology, nutrition, physiology and reproduction. The book covers various topics, including economically important livestock breeds, paradigm shifts in livestock production, biotechnology in animal nutrition and in livestock-assisted reproduction, and genomics and genetic engineering tools in livestock production and management. Artificial insemination is used instead of natural mating for reproduction purposes and its chief priority is that the desirable characteristics of a bull or other male livestock animal can be

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passed on more quickly and to more progeny than if that animal is mated with females in a natural fashion. This book contains under one cover 16 chapters of concise, up-to-date information on artificial insemination in buffalos, ewes, pigs, swine, sheep, goats, pigs and dogs. Cryopreservation effect on sperm quality and fertility, new method and diagnostic test in semen analysis, management factors affecting fertility after cervical insemination, factors of non-infectious nature affecting the fertility, fatty acids effects on reproductive performance of

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ruminants, particularities of bovine artificial insemination, sperm preparation techniques and reproductive endocrinology diseases are described. This book will explain the advantages and disadvantages of using AI, the various methodologies used in different species, and how AI can be used to improve reproductive efficiency in farm animals.

This book entitled, "Advances in Animal Biotechnology," is a compilation of state-of-the-art in the field of Animal Biotechnology including fishery, that are not sheltered in depth in earlier publications. It offers an update

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on avant-garde technologies and advances in key aspects of genetic engineering, metagenomics, assisted reproduction, animal genomics, biotechnology in veterinary health, as well as the role of gut and marine microbial ecosystems in livestock and industrial development. The book is divided broadly into five different sections, viz., Gut Microbiome and Nutritional Biotechnology, Assisted Reproduction Biotechnology, Livestock Genomics, Health Biotechnology, and Animal Biotechnology in Global Perspective. The book covers

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the syllabi of Animal Biotechnology courses in various universities, academia and competitive examinations at various levels. Researchers, Continuing Graduates, and Academicians, Research Institutions, and Biotech Companies will be benefited from this valuable compilation of research. Its broad spectrum makes this work a valuable resource for professionals, researchers, academics and students in the field of veterinary and animal production as well as the biotechnology industry. Proceedings of the Technical Conference on Artificial

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Insemination and Reproduction  
Recommended Allowances and  
Feed Tables

REVIEWS OF VETERINARY  
RESEARCH-WHAT NEXT?

Potential Application of  
Recombinant DNA and Genetics  
on Agricultural Sciences

Arthur's Veterinary Reproduction  
and Obstetrics E-Book

Tackling Climate Change  
Through Livestock

Biology has entered an era in which  
interdisciplinary cooperation is at an all-  
time high, practical applications follow  
basic discoveries more quickly than ever  
before, and new

technologies--recombinant DNA, scanning  
tunneling microscopes, and more--are  
revolutionizing the way science is

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conducted. The potential for scientific breakthroughs with significant implications for society has never been greater. Opportunities in Biology reports on the state of the new biology, taking a detailed look at the disciplines of biology; examining the advances made in medicine, agriculture, and other fields; and pointing out promising research opportunities.

Authored by an expert panel representing a variety of viewpoints, this volume also offers recommendations on how to meet the infrastructure needs--for funding, effective information systems, and other support--of future biology research.

Exploring what has been accomplished and what is on the horizon, Opportunities in Biology is an indispensable resource for students, teachers, and researchers in all subdisciplines of biology as well as for research administrators and those in funding agencies.

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Deals with feed evaluation systems, the nutrient requirements of ruminant livestock and the feeding value of a wide range of feedstuffs. This book lists about 800 typical forages, 65 crop residues and 120 concentrate and by-product feeds. It is suitable for teachers, specialist scientists and industrialists.

Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a practical, fully referenced, image-based guide to the essential concepts of reproductive ultrasound in domesticated ruminants and camelids. Providing information to enable practitioners to incorporate ultrasound service into their practices, the book also includes more specialized information for advanced techniques such as fetal sexing, embryo transfer, color Doppler, and others. Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a must-

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have reference for ruminant and camelid practitioners, instructors, and students. *New Technologies in Animal Breeding* 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 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 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 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 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.

Current and Future Reproductive  
Technologies and World Food Production  
Ethics in Agriculture - An African  
Perspective

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Encyclopedia of Animal Science - (Two-Volume Set)

Beef Heifer Development, An Issue of  
Veterinary Clinics: Food Animal Practice,  
Quality of Semen and Diagnostics  
Employed

Ruminant Nutrition

?????????????This book addresses the impacts of current and future reproductive technologies on our world food production and provides a significant contribution to the importance of research in the area of reproductive physiology that has never been compiled before. It would provide a unique opportunity to separate the impacts of how reproductive technologies have affected different species and their

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contributions to food production. Lastly, no publication has been compiled that demonstrates the relationship between developments in reproductive management tools and food production that may be used a reference for scientists in addressing future research areas. ?During the past 50 years assisted reproductive technologies have been developed and refined to increase the number and quality of offspring from genetically superior farm animal livestock species. Artificial insemination (AI), estrous synchronization and fixed-time AI, semen and embryo cryopreservation, multiple

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ovulation and embryo transfer (MOET), in vitro fertilization, sex determination of sperm or embryos, and nuclear transfer are technologies that are used to enhance the production efficiency of livestock species.

Recent Trends in Agriculture towards Food Security and Rural Livelihood- Vol.1

Dynamic Laser Speckle and Applications

Understanding Life Phenomena  
Animal Biotechnology 1