

Reproduction In Farm Animals

The oestrous cycle and its controls, The development of the conceptus, Pregnancy and its detection in the mare, Pregnancy and its detection in the cow, Pregnancy diagnosis in the sow, ewe and bitch, Anomalies of development of the conceptus, Prolapse of the vagina, Parturition, The care of parturient animals and the newborn:the puerperium, Dystocia:general considerations, Maternal dystocia, Fetal dystocia:aetiology and incidence, The approach to an obstetrical case, Manipulative delivery per vaginam:farm animals and the bitch, Dystocia due to fetal oversize, Dystocia due to defects of position or presentation, Dystocia due to twins or monstrosities, Injuries and diseases incidental to parturition, The caesarean operation, Caesarean operations in the bitch and cat, Retention of the fetal membranes, Postparturient prolapse of the uterus, Infertility in the cow:general, anatomical and functional, Infectious forms of infertility in cattle, The veterinary control of herd infertility, Sheep infertility, Infertility in the mare, Swine infertility, Infertility in the bitch and cat, The normal sexual apparatus of male animals, Reproductive abnormalities of male animals, Artificial insemination.

Functional anatomy of reproduction; Physiology of reproduction; Reproductive cycles; Reproductive failure; Techniques for improving reproductive efficiency.

For sophomore to senior-level courses in Physiology of Reproduction in Farm Animals, and Applied Techniques in Reproduction; in Animal Science and Pre-veterinary departments. Also, for use in two-year agricultural curricula and short courses where previous experience is not assumed. Comprehensive, up-to-date, readable- and accessible to undergraduates new to the subject- this text offers unique coverage of both basic physiology as related to reproduction AND the application of physiology to the management of reproduction in livestock species.

Building on the successful structure of the first edition, the second edition of Reproductive Technologies in Farm Animals has been totally updated and revised to provide an up to date account of the key techniques employed in manipulating reproduction in farm animals, including beef and dairy cattle, pigs, sheep, goats, buffaloes, camelids, horses and poultry. A classic introductory text to the subject, the book is based on a comprehensive review of the current literature. This text remains key reading for students in animal science, agriculture, veterinary medicine and biology, and veterinary practitioners and farmers who wish to keep updated on developments in techniques that may be useful in their daily practice.

It is very important to understand the recent advances and basic concepts of veterinary genetics to explore the possibilities for control of diseases in animals. They are also significant for enhancing animal production and reproduction. Our book Trends and Advances in Veterinary Genetics provides a concise introduction and details to the aspects of genetics relevant to animal science and production. This is the first edition of the book so it covers the introductory level of topics which are ideal for veterinary students, classroom use, and practitioners who require more guidance with genetics. The book coverage includes the following main sections: Biotechnology and Reproductive Genetics, Advances in Embryonic Genetics, Conservation and Basic Genetics, and Veterinary Genetics and Future. Each book section comprises two chapters from renowned experts from the area and gives readers a unique opportunity to explore the topic.

When you're looking for a comprehensive and reliable text on large animal reproduction, look no further! the seventh edition of this classic text is geared for the undergraduate student in Agricultural Sciences and Veterinary Medicine. In response to reader feedback, Dr. Hafez has streamlined and edited the entire text to remove all repetitious and nonessential material. That means you'll learn more in fewer pages. Plus the seventh editing is filled with features that help you grasp the concepts of reproduction in farm animals so you'll perform better on exams and in practice: * condensed and simplified tables, so they're easier to consult * an easy-to-scan glossary at the end of the book * an expanded appendix, which includes graphic illustrations of assisted reproduction technology Plus, you'll find valuable NEW COVERAGE on all these topics: * Equine Reproduction: expanded information reflecting today's knowledge * Llamas (NEW CHAPTER) * Micromanipulation of Gametes and In Vitro Fertilization (NEW CHAPTER!) Reach for the text that's revised with the undergraduate in mind: the seventh edition of Hafez's Reproduction in Farm Animals.

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 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 buffaloes, 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 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 textbook provides a detailed view of the different ways in which reproduction in cattle, sheep, pigs and horses can be controlled and manipulated. It is primarily of interest to students of animal science and veterinary medicine, but will also be of use to those who are concerned with the practical aspects of reproduction control, whether in an advisory capacity or in applying techniques on the farm itself. A major objective of the book is to draw attention to information which may be used directly to increase the efficiency of the livestock industry.

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 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 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.

Reproduction in Farm Animals John Wiley & Sons

Bovine Reproduction is a comprehensive, current reference providing 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 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 exhaustive reference available on this topic. Each section covers anatomy and physiology, breeding management, and reproductive surgery, as well as obstetrics and pregnancy wastage in the cow. Bovine Reproduction is a welcome resource for bovine practitioners, theriogenologists, and animal scientists, as well as veterinary students and residents with an interest in the cow.

Cattle play a fundamental role in animal agriculture throughout the world. They not only provide us with a vital food source, but they also provide us with fertilizer and fuel. Keeping reproduction levels at an optimum level is therefore essential, but this is often a complicated process, especially with modern, high yielding cows. Written in a practical and user-friendly style, this book aims to help the reader understand cattle reproduction by explaining the underlying physiology of the reproductive process and the role and importance of pharmacology and technology, and showing how management techniques can improve reproductive efficiency. This edition includes: Recent research findings on the physiology of the oestrous cycle and its control; New techniques for monitoring and manipulating reproduction, including pregnancy diagnosis and embryo transfer; Advice on identifying common infertility problems and how to prevent and treat them. Reproduction Cattle 3e is essential reading for veterinary and agricultural students, as well as veterinarians and farmers involved in cattle reproduction.

An essential resource for both students and practitioners, this comprehensive 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 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 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 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 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 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 disease and nutrition.

Reproductive Technologies in Animals provides the most updated and comprehensive knowledge on the various aspects and applications of reproductive technologies in production animals as well as companion, wild, exotic, and laboratory animals and birds. The text synthesizes historical information and recent discoveries, while dealing with economical and geographical issues related to the implementation of the same technologies. It also presents the effects of reproductive technology implementation on animal welfare and the possible threat of pathogen transmission. Reproductive Technologies in Animals is an important resource for academics, researchers, professionals in public and private animal business, and students at the undergraduate and graduate levels, as it gives a full and detailed first-hand analysis of all species subjected to the use of reproductive technologies. Provides research from a team of scientists and researchers whose expertise spans all aspects of animal reproductive technologies. Addresses the use of reproductive technologies in a wide range of animal species. Offers a complete description and historical background for each species described. Discusses successes and failure as well as future challenges in reproductive technologies.

A unique feature of this book is the focus on large, domestic animals. Previous editions were considered the "Bible" of reproductive physiology. It covers basic, large animal reproductive physiology, provides species-specific information and is suitable as a textbook for upper-division courses.

The female, puberty and oestrus cycles; The male, semen production and artificial insemination; Mating, fertilisation and maintenance of pregnancy; Parturition: perimatal and post-partum problems; Subfertility, infertility, sterility; Reproductive technology.

This book is the first in a set of four providing a series on controlled reproduction in farm animals. The aim of the series is to provide a general review of the literature dealing with the different ways in which reproduction in the major farm mammals can be controlled and manipulated. The four volumes are effectively an expanded and new edition of a previous work, Controlled Breeding in Farm Animals (Pergamon Press, 1983). However, the literature on this subject has expanded so rapidly since the time of the earlier volume, that it is now thought appropriate to publish it in four separate volumes. Buffaloes, goats, deer and camelids have been added to the species covered by the series compared to the previous book. All volumes provide comprehensive reference lists and are fully up-to-date. This first volume focuses on cattle and buffaloes. It will appeal to reproductive physiologists and workers in animal production, animal breeding and veterinary medicine.

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 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.

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