

Artificial Insemination Animals

Biotechnology for Beginners
Artificial Insemination and Treatment of Infertility in Dairy Animals
Textbook of Andrology and Artificial Insemination in Farm Animals
Beef Cattle Science Handbook
Cattle Embryo Transfer Procedure
Masterminding Nature
Artificial Insemination in Livestock Breeding
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Reproduction in Domestic Animals
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The Artificial Insemination of Dairy and Beef Cattle
The Artificial Insemination and Embryo Transfer of Dairy and Beef Cattle (including Information Pertaining to Goats, Sheep, Horses, Swine, and Other Animals)
Reproductive Technologies in Animals
Reproduction in Farm Animals
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The Artificial Insemination of Farm Animals
Artificial Insemination and Animal Production
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Biotechnology in Animal Husbandry
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Veterinary Andrology and Artificial Insemination in Domestic Animals
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Biotechnology for Beginners

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 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 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.

Artificial Insemination and Treatment of Infertility in Dairy Animals

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.

Textbook of Andrology and Artificial Insemination in Farm Animals

Beef Cattle Science Handbook

This textbook will fulfil the long felt needs of students and teachers as it is designed to cover prescribed syllabus of veterinary council of India on Andrology and Artificial insemination. It has pictorial representations, graphs and tables, the text leads the neophyte to a solid understanding of the subject.

Cattle Embryo Transfer Procedure

In the past half century great progress has been made in the reproductive management of farm animals, both mammals and birds. This book aims to review developments and indicate which reproductive technologies can be used commercially or in research. It begins by discussing artificial insemination and how this has recently been refined in semen sexing technology. Embryo transfer, in vitro embryo production technology and the control of oestrus and ovulation are then reviewed. Subsequent chapters consider the control of postpartum ovarian activity, seasonal breeding, multiple births and litter size, pregnancy testing, parturition, and the onset of puberty. The author then describes more recent developments in cloning and the production of transgenic animals, before a final chapter on suppressing reproductive activity.

Masterminding Nature

Historical background; The organs of reproduction; The role of hormones in reproduction; Evaluation of semen by chemical analysis; Factors influencing the quality and quantity of semen; Dairy cattle; Beef cattle; Buffaloes; Horses and Jackstock; Sheep and goats; Swine; Poultry; Dogs; Honeybees; Frozen semen; The shipping of semen; Livestock improvement and artificial insemination; Disease and artificial insemination; Artificial breeding organization.

Artificial Insemination in Livestock Breeding

Biomedical Ethics and Jewish Law

Small Animal Soft Tissue Surgery

Goat science covers quite a wide range and varieties of topics, from genetics and breeding, via nutrition, production systems, reproduction, milk and meat production, animal health and parasitism, etc., up to the effects of goat products on human health. In this book, several parts of them are presented within 18 different chapters. Molecular genetics and genetic improvement of goats are the new approaches of goat development. Several factors affect the passage rate of digesta in goats, but for diet properties, goats are similar to other ruminants. Iodine deficiency in goats could be dangerous. Assisted reproduction techniques have similar importance in goats like in other ruminants. Milk and meat production traits of goats are almost equally important and have significant positive impacts on human health. Many factors affect the health of goats, heat stress being of increasing importance. Production systems could modify all of the abovementioned characteristics of goats.

Reproduction in Domestic Animals

Material is organized into 5 parts for easy and ready use, broadening the usefulness of the book, making it the most comprehensive, hands-on AI manual available. This manual prepares users for the "real world" by exposing them to the latest technology and techniques used in the reproduction and the practice of artificial insemination (AI) in livestock. Part One provides information on the advantages and considerations of artificial insemination, basic livestock genetics, the anatomy and reproductive processes of the cow and bull, and semen collection methods. It relates statistics on AI usage and general information about NAAB and CSS. Part Two deals with semen characteristics, including evaluation, processing,

and extension; freezing and cryogenic storage; and care of the refrigerator unit. The various tests for semen quality are discussed in detail as is custom selection of semen. Part Three explains insemination techniques for dairy and beef cattle, inseminator training, pregnancy determination in cattle, conception rates, and breeding problems. The exercise on "Embryo Transfer and Related Practices" explains the advances and techniques involved in the field. Part Four includes an overview of sire selection, sire health, sire management, AI organization, and career opportunities. Part Five explains the use and techniques for artificial insemination in dairy goats and other farm animals. For herd operators and persons involved in genetic development—of particular use to people interested in livestock improvement. For those who are anticipating careers in some phase of the AI industry.

Embryonic Mortality in Farm Animals

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

Goat Science

'Cattle Embryo Transfer Procedure' is an instructional manual for the rancher, dairyman, artificial insemination technician, animal scientist, and veterinarian. This laboratory training manual brings all the elements for a successful embryo transfer program together in a simple, organized format. For the past several decades, artificial insemination has allowed genetic progress to be achieved relatively quickly through the widespread and efficient use of frozen semen. Embryo transfer (ET) techniques give cows the ability to produce multiple offspring, leading to more rapid genetic gain and complementing an artificial insemination program.

Theriogenology

Animal Biotechnology 1

We have come to realize that animal husbandry appears to be a very apt practice not only for the rural Indian population but to the urban population as well. However, it needs to be incorporated with cultivational agricultural practices to obtain maximum benefits. This requires a judicious breeding practice, modern farm practice and economic makeover of the current scenario. A sound knowledge of female reproductive organs, management of fertility, repeat breeders, artificial insemination, animal health, detection of reproductive abnormalities, control of parasites and diseases, balanced ration formulations, etc are of greater importance for persons involved in dairy farming practices, all these aspects along with proper selection of breeding animals, conservation of indigenous breeds, livestock entrepreneurship have been aptly dealt with in this book. The importance of disaster management of livestock, veterinary first aid, adoption of extension services, ethno-veterinary practices have also been emphasized very improved practices at one place, not only for livestock farmers alone but for all stake-holders in the livestock industry.

Bovine Reproduction

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.

Small Animal Theriogenology

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.

The Artificial Insemination of Dairy and Beef Cattle

The Artificial Insemination and Embryo Transfer of Dairy and Beef Cattle (including Information Pertaining to Goats, Sheep, Horses, Swine, and Other Animals)

Biotechnology for Beginners, Second Edition, presents the latest information and developments from the field of biotechnology—the applied science of 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 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 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 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 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 have an extensive scientific background Includes all facets of biotechnology applications Covers articles from the most respected scientists, including Alan Guttmacher, Carl Djerassi, Frances S. Ligler, Jared Diamond, Susan Greenfield, and more Contains a summary, annotated references, links to useful web sites, and appealing review questions at the end of each chapter Presents more than 600 color figures and over 100 illustrations Written in an enthusiastic and engaging style unlike other existing theoretical and dry-style biotechnology books

Reproductive Technologies in Animals

Canadian historian Margaret Derry examines the evolution of modern animal breeding from the invention of improved breeding methods in 18th-century England to the application of molecular genetics in the 1980s and 1990s.

Reproduction 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.

Artificial Insemination in Bovine and Livestock Management

Small Animal Soft Tissue Surgery is a comprehensive, in-depth resource for well-referenced, current information on small animal soft tissue surgery. Offering detailed surgical techniques in a well-illustrated, easy-to-follow format, the book covers the full range of surgically treated diseases and syndromes, with video clips and slideshows to demonstrate surgical procedures on an accompanying DVD. Chapters are written by the leading experts in surgery, internal medicine, radiology, and critical care, presenting information based on a review of the most recent literature. Divided into chapters by body system, each section begins with a brief review of the anatomy and physiology, with pathophysiology, diagnosis, treatment, and prognosis described in detail. Original illustrations and clinical photographs accompany the description of surgical techniques, and an evidence-based approach is incorporated throughout. Small Animal Soft Tissue Surgery is an essential reference for small animal surgeons, residents, and practitioners performing soft tissue surgery. For e-book purchasers: DVD materials are not included as part of the e-book file, but are available for download after purchase.

The Artificial Insemination of Farm Animals

When considering the 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 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. 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

Artificial Insemination and Animal Production

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.

Controlled Breeding in Farm Animals

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.

Biotechnology in Animal Husbandry

Theriogenology, the field that studies animal reproductive health and disease, is a challenging field that shows a steady growth. It covers diverse aspects of reproduction in domestic and wild animals, including the assisted reproductive techniques, which have enormously enhanced the ability to rescue endangered species and provide a strong support to the high reproductive efficiency requested by livestock production. Reproductive success, as well as infertility, is the culmination of complex physiological and adaptive processes that guarantee, at the end, a species' ability to reproduce and its survival in a challenging and ever-changing environment. In this book, we present to you a collection of manuscripts exploring various aspects of the reproductive function of mammal and marine species. I hope you find this a useful book in

your collection.

Biotechnologies Applied to Animal Reproduction

Artificial Insemination of Farm Animals in the Soviet Union

The Semen of Animals and Its Use for Artificial Insemination

"In addition, a number of the earlier chapters have been thoroughly revised in light of current developments. The book is an addition to the library of anyone who is concerned about the interaction between modern medicine and Jewish law in the twenty-first century."--BOOK JACKET.

Poultry Science

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 in Farm Animals

The book is devoted to introduction to andrology, puberty, sexual maturity, sexual behaviour and libido in domestic animals, forms of male infertility- abnormalities, malformations, diseases of male genitalia, their diagnosis and treatment, artificial insemination technology in cattle, semen collection, semen evaluation, semen and its composition, semen dilutors or extenders, packaging of semen, methodology of semen freezing, precautions on frozen semen storage, evaluation of

frozen semen, artificial insemination technique using liquid and frozen semen, factors affecting conception rate in artificial insemination programme, factors affecting quality and quantity of semen, planning and organization of artificial insemination (AI) center, record keeping in andrology & artificial insemination, cleaning and sterilization of artificial insemination equipments, andrological investigations for breeding soundness of bulls, artificial insemination technology in buffaloes, horses, pigs, sheep, goats and castration in different domestic animals.

The Artificial Insemination of Farm Animals

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. 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.

Current Therapy in Large Animal Theriogenology - E-Book

Animal biotechnology is a broad umbrella encompassing the polarities of fundamental and applied research including molecular modelling, molecular and quantitative genetics, gene manipulation, development of diagnostics and vaccines and manipulation of tissue or digestion metabolism by growth promoters. Although animal biotechnology in the broadest sense is not new, what is new is the level of complexity and precision involved in scientists' current ability to manipulate living organisms. This new book sets out to show that the important ideas in animal biotechnology are exciting and relevant to everyday experience. It represents an important update of the literature for research workers, lecturers, and advisers in animal science, but is also a core text for advanced undergraduate courses in animal science and biotechnology. It will be an essential acquisition for librarians in agriculture and veterinary science.

New Technologies in Animal Breeding

This conference represents the first time in my life when I felt it was a misfortune, rather than a major cause of my happiness, that I do conservation work in New Guinea. Yes, it is true that New Guinea is a fascinating microcosm, it has fascinating birds and people, and it has large expanses of undisturbed rainforest. In the course of my work there, helping the Indonesian government and World Wildlife Fund set up a comprehensive national park system, I have been able to

study animals in areas without any human population. But New Guinea has one serious drawback: it has no primates, except for humans. Thus, I come to this conference on primate conservation as an underprivileged and emotionally deprived observer, rather than as an involved participant. Nevertheless, it is easy for anyone to become interested in primate conservation. The public cares about primates. More specifically, to state things more realistically, many people care some of the time about some primates. Primates are rivaled only by birds, pandas, and the big cats in their public appeal. For some other groups of animals, the best we can say is that few people care about them, infrequently. For most groups of animals, no one cares about them, ever.

Reproductive Technologies in Farm Animals

A title in the Practical Veterinarian series, this comprehensive, concise reference has been developed by Diplomates of the American College of Theriogenologists to help veterinary students, veterinarians, and veterinary technicians quickly find answers to common questions. Quick-reference information in an outline format presents the normal reproductive anatomy and physiology, reproductive disorders, and breeding management in dogs and cats. Tables and illustrations further clarify key concepts. This book also serves as an easy-to-understand introduction to veterinary theriogenology touching on all aspects of small animal reproduction, including physiology and pathology of the male and female reproductive systems and the clinical practice of veterinary obstetrics, gynecology, and semenology. Easy-to-use, pocket sized format keeps key facts within reach in any setting. Outline format makes finding information quick and easy. The ONLY book written on small animal theriogenology for small animal veterinarians designed for quick reference. All content is current and the authors are Diplomates of the American College of Theriogenologists to ensure the most authoritative information, including discussions of regional or national differences in techniques and medications. Coverage of veterinary neonatology presents pediatric content on examining, treating, and feeding neonates that is often overlooked by other texts on the subject. Topics include breeding management, pregnancy diagnosis and care, pregnancy termination, artificial insemination and preparation of chilled and frozen semen, emerging technologies in veterinary reproduction, and diseases of the reproductive tract including vaginitis, prostate disease, and pyometra. Includes a chapter on infertility, an area of growing concern for pet owners and breeders.

Artificial Insemination of Farm Animals

When it comes to life science and specially by considering animal-origin protein, one of the main topics to gain importance with respect to human nutrition and health is poultry science. This book presents an introductory overview to the different fields/branches of poultry science with four main divisions: different feed resources for poultry, biofilms of salmonella and campylobacter in the poultry industry, prevention of different contaminants in modern poultry farms, and mycotoxins in

poultry feed. This book will be beneficial for the graduate students, teachers, researchers, farmers, and other professionals, who are interested to fortify and expand their knowledge about chicken products in fields of poultry science, biotechnology, plant science, and agriculture.

Comparative Reproductive Biology

The extent and timing of embryo loss in farm; The establishment of pregnancy; Progesterone and embryo loss; Genetic and environmental factors and embryo loss.

Reproductive Technologies in Farm Animals, 2nd Edition

Artificial Insemination and Treatment of Infertility in Dairy Animals by Honnappagol and Tandle is a handy work of 16 well experienced faculties drawn from different departments of higher learning. Most of them are actively engaged in undergraduate and post-graduate teaching with considerable expertise. Adequate care has been exercised by the editors to incorporate all the aspects of artificial insemination and infertility in the chapters from 1 to 20 so that it can serve as a real guide to the students and veterinarians and in turn minimizing the possible economic losses to the dairy animal owners and dairy industry. Adequate care has been taken to include all spheres of infertility starting from endocrinology of estrous cycle, role of nutrition, feed formulation, breeding strategies, estrus detection aids, recent advances in reproduction controlled breeding, fertility improvement use of ultrasound and laparoscopy, therapeutic management of infertility and reproductive disease control. Practical knowledge and skill in respect of handling, storage and evaluation of frozen semen, safety handling of cryocans and liquid nitrogen, factors affecting success rate in artificial insemination programme and drugs and hormones used in treating reproductive disorders is also provided.

Veterinary Andrology and Artificial Insemination in Domestic Animals

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.

Primates

Physiology of Reproduction and Artificial Insemination of Cattle

The soil and the seed; Livestock improvement through reproduction and artificial insemination; The reproductive system of the cow; The estrous cycle; Oogenesis, ovulation, and fertilization; Gestation; Parturition; The storage and the planting; The reproductive tract of the bull; Formation, migration, maturation, and ejaculation of spermatozoa; Semen and its components; Morphology and motility of spermatozoa; Metabolism of bull spermatozoa; Physiology of spermatozoa in the female reproductive tract; Semen collection; Semen evaluation; Significance of semen quality; Extenders and extension of unfrozen semen; Principles and techniques of freezing spermatozoa; Insemination of the cow; The cultivation and the harvest; Conception rate and factors affecting its magnitude; Inherited, anatomical, and pathological causes of lowered reproductive efficiency; Physiological and psychological causes of lowered reproductive efficiency; Physiological and psychological causes of lowered reproductive efficiency; Management factors that affect the reproductive efficiency of the cow; Management factors that affect the reproductive efficiency of the bull.

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