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

**Semen of Animals and Artificial Insemination 1962**

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.

**Physiology of reproduction and of artificial insemination in domestic animals**

**Artificial Insemination 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.

**Artificial Insemination in Livestock Breeding**

**Regulation of Artificial Insemination in Animals in the Netherlands**

Artificial insemination in cattle; Management, selection and length of usefulness of bulls; Semen collection and production; Assessment of semen quality; Semen composition, metabolism and physical state in relation to storage and dilution; Dilution and storage media; Semen handling, cooling, dilution and transport; Antibiotics in semen diluents; Ultra-low temperature storage of semen; Insemination techniques and management factors influencing conception rates; Artificial insemination in other animals; Artificial insemination in the water buffalo;
Artificial insemination in the sheep; Artificial insemination in goat; Artificial insemination in the pig; Artificial insemination in the horse; Artificial insemination in mule production; Artificial insemination in the dog; Artificial insemination in rodents; Artificial insemination in poultry; Some other aspects of artificial insemination; Development of artificial insemination in the tropics; Export of semen.

Goat Science

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.

Fifty Years of Artificial Insemination of Farm Animals in Japan

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.

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

**Artificial Insemination and Animal Production**

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, camels, 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.


**Artificial Insemination of Farm Animals in the Soviet Union**

**Artificial Insemination in Farm Animals**

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 under-graduate 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 form 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.

The Semen of Animals and Its Use for Artificial Insemination

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.

Reproductive Technologies in Farm Animals, 2nd Edition

The Artificial Insemination of 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 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.

**5th International Congress on Animal Reproduction and Artificial Insemination**

**The Semen of Animals and Artificial Insemination**

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.

The artificial insemination of 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 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.

**Animal Agriculture**


**Veterinary Andrology and Artificial Insemination in Domestic 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.

**Animal Biotechnology 1**

**Artificial Insemination of 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.

**Artificial Insemination in Livestock Breeding**
Artificial Insemination of Farm Animals

The Artificial Insemination of Farm Animals

The Artificial Insemination of Dairy and Beef Cattle

Current Therapy in Large Animal Theriogenology - E-Book

Artificial insemination of animals bill

Artificial Insemination and Treatment of Infertility in Dairy Animals

The Artificial Insemination of Farm Animals

Stockbreeding and the Artificial Insemination of Livestock

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Veterinary Reproduction and Obstetrics

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