

Ultrasonic Imaging And Animal Reproduction

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Biotechnology in Animal Health and Production Satish Kumar Jindal 2010 This book describes and evaluates animal biotechnology and its application in veterinary medicine and pharmaceuticals as well as improvement in animal food production. Transgenic technologies are used for improving milk production and the meat in farm animals as well as for creating models of human diseases. Transgenic animals are used for the production of proteins for human medical use. Biotechnology is applied to facilitate xenotransplantation from animals to humans. Genetic engineering is done in farm animals and nuclear transfer technology has become an important and preferred method for cloning animals. Biotechnology has potential applications in the management of several animal diseases such as foot-and-mouth disease, classical swine fever, avian flu and bovine spongiform encephalopathy. The most important biotechnology based products consist of vaccines, particularly genetically engineered or DNA vaccines. Gene therapy for diseases of pet animals is a fast developing area because many of the technologies used in clinical trials humans were developed in animals and many of the diseases of cats and dogs are similar to those in humans. RNA interference technology is now being applied for research in veterinary medicine. Molecular diagnosis is assuming an important place in veterinary practice. Polymerase chain reaction and its modifications are considered to be important. Fluorescent in situ hybridization and enzyme-linked immunosorbent assays are also widely used. Newer biochip-based technologies and biosensors are also finding their way in veterinary diagnostics. This book is an attempt to unravel the mysteries of biotechnology as it affects animal health and production."

Update on Ruminant Ultrasound, An Issue of Veterinary Clinics of North America: Food Animal Practice, E-Book Sébastien Buczinski 2016-04-05 This issue of Veterinary Clinics of North America: Food Animal Practice focuses on Ruminant Ultrasound. Article topics include: On-farm use of ultrasound for assessment of bovine respiratory disease, Echocardiography for the assessment of congenital heart defects in calves, Ultrasonography of the tympanic bulla and otitis media, Ultrasonography of the central nervous system and ultrasound guided CSF tap, Ultrasonographic examination of the abdomen of calves, Ascites in cattle: ultrasonographic findings and diagnosis, Ultrasonographic doppler use for reproduction management in heifers and cows, Ultrasound use for body condition and carcass quality assessment in cattle and lambs, and more!

South American camelids research Martina Gerke 2006-07-20 South American Camelids are receiving increased interest not only in South America but also on a worldwide scale. They possess some unique features such as their fine fibre and their high adaptivity to many climatic regions across the world. Apart from the important productive aspects, their beauty also predestine them as pet animals. However, there are still many gaps in the scientific literature with regard to South American Camelids. This collection of papers brings experience of both South American and European experts together. It considers current trends in reproduction, nutrition, health, fibre morphology and genetics and discusses as new topic aspects of the potential of meat production and commercialization in South America. The particular advantages of South American Camelids for the sustainable use of fragile ecosystems with native pastures are outlined. Round tables discussions focus on the interaction between wild and domestic species, the management of alpaca populations outside of South America and health aspects under European conditions. South American Research is aimed at scientists and animal breeders as well as students studying veterinary, animal and applied biological sciences.

Veterinary Reproductive Ultrasonography Wolfgang Kähn 2004-03-22 A guide to the reproductive problems facing the busy veterinary practitioner in every day practice. The pregnant and non-pregnant uterus, as well as pathologic changes of the reproductive system are described and explained. The book is superbly illustrated and covers all the important domestic large and small animals: dogs, cats, horses, cows, sheep, goats and pigs.

Current Therapy in Large Animal Theriogenology - E-Book Robert S. Youngquist 2006-11-23 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.

Biotechnologies Applied to Animal Reproduction Juan Carlos Gardón 2020-11-01 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.

Manual of Equine Reproduction - E-Book Steven P. Brinsko 2010-05-19 Now in full color, Manual of Equine Reproduction, 3rd Edition provides a comprehensive look at the reproductive management of horses, including management of stallions, pregnant mares, and neonatal foals. Expert authors use a concise, practical approach in discussing improved therapies and treatments in equine breeding. You'll enhance your skills and knowledge with this book's detailed coverage of techniques used in reproductive examination, breeding procedures, pregnancy diagnosis, foaling, and reproductive tract surgery. A clinical emphasis includes a step-by-step format of possible scenarios from conception to breeding management. Practical information includes topics such as breeding with transported cooled or frozen semen, and caring for the broodmare and newborn foal. The organization of material corresponds to the course of study in veterinary school, so you can find topics easily. Chapter objectives and study questions at the beginning of each chapter guide you through the material and provide clear learning goals. Evaluation of Breeding Records chapter covers the importance of breeding records, and how to use them to evaluate stallion performance and optimize fertility. References are listed at the end of each chapter for further research and study. Full-color photographs and illustrations clearly depict procedures, and all drawings have been redrawn and improved. NEW Assisted Reproductive Technology chapter goes beyond embryo transfer. Updated content includes the latest advances in therapies and treatments. New content is added to two chapters, Reproductive Physiology of the Nonpregnant Mare and Manipulation of Estrus in the Mare. Thorough coverage of every aspect of equine reproduction provides a strong foundation for success in veterinary practice, including a discussion of the use of GnRH-analog deslorelin (Ovuplant) to hasten ovulation; aseptic technique for endometrial biopsy; use of transabdominal ultrasonography, especially in early pregnancy; determination of fetal gender by transrectal ultrasonography; aspiration testicular biopsy using a spring-loaded biopsy instrument; and procedure for surgical embryo transfer.

Equine Reproduction Angus O. McKinnon 2011-07-05 Now in a much-anticipated two-volume new edition, this gold-standard reference stands as the most comprehensive and authoritative text on equine

reproduction. Serving theriogenologists, practitioners and breeders worldwide as a one-stop resource for the reproductive assessment and management of equine patients, Equine Reproduction, Second Edition provides detailed information on examination techniques, breeding procedures, pregnancy diagnosis and management, reproductive tract diseases and surgery, and foaling. A companion CD offers hundreds of images from the book in color. For the Second Edition, the stallion, mare and foal sections have been thoroughly updated and revised to include the latest information on every subject. New topics include discussion of nutritional and behavioral factors in the broodmare and stallion, parentage testing, fetal sexing and the health and management of older foals, weanlings and yearlings. Additionally, this outstanding Second Edition features a new section on assisted reproductive techniques, including detailed information on artificial insemination, in-vitro fertilization, embryo transfer and technology.

Bovine Reproduction Richard M. Hopper 2021-04-30 Bovine Reproduction A complete resource for practical, authoritative information on all aspects of bovine theriogenology The newly revised Second Edition of Bovine Reproduction delivers a comprehensive overview of all major issues in bovine reproduction. Written by leading experts in the subject, the book is an indispensable reference for any veterinarian dealing with bovine fertility. Bovine Reproduction is divided into sections on the bull, the cow, the neonate, and assisted reproduction techniques. New chapters cover new gene manipulation technologies, managing problem donors, lameness, and more. Outdated and redundant information from the First Edition has been removed and replaced by coverage of new diseases, technologies, procedures, techniques, and approaches to fertility problems. A new companion website provides images and tables from the book in PowerPoint format. In addition to more than 675 full-color images, readers will also benefit from: A thorough discussion of the anatomy and physiology of the bull, including the endocrine and exocrine function of bovine testes and the thermoregulation of the testes An exploration of breeding and health management of bulls, including the evaluation of breeding soundness and ultrasound examination of the reproductive tract An examination of the anatomy, physiology, and the breeding and health management of cows, including fetal programming, the reproductive tract microbiome, and a section on obstetrics and reproductive surgery A review of the management of both critical care of the neonate and effective colostrum assessment and provision An introduction to assisted and advanced reproductive technologies A practical and comprehensive reference, Bovine Reproduction is a must-have purchase for bovine practitioners, theriogenologists, animal scientists, veterinary students, and residents with an interest in cattle.

Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography Luc DesCôteaux 2009-12-08 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-have reference for ruminant and camelid practitioners, instructors, and students.

Animal Reproduction 2022-05-25 Reproduction is the backbone of animal-based food production. The reproductive systems of animals vary and are species-dependent. In this regard, all terrestrial animals perform internal fertilization, whereas aquatic animals perform different reproductive strategies such as internal fertilization without mating, external fertilization, viviparous, oviparous, and parthenogenesis. Today, reproductive biotechnology is an important part of the conservation and propagation of animals. This book addresses several hot topics in the field of reproduction of terrestrial and aquatic animals. Over five sections and eight chapters, this volume examines subjects such as cryopreservation, embryo transfer, avian reproduction, intraovarian gestation, and more.

Biotechnologies Applied to Animal Reproduction Juan Carlos Gardón 2020-11-01 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.

Ultrasonic Imaging and Animal Reproduction: Fundamentals O. J. Ginther 1995

Endocrinology of Pregnancy Fuller W. Bazer 2012-12-06 A comprehensive, cutting-edge review of the complex interactions between maternal and fetal-placental tissues that control the establishment and maintenance of pregnancy, the proper development of the fetus, the birth process, and the behavioral aspects of bonding between mother and newborn. Expert researchers review the endocrine and physiological events that culminate in the delivery of offspring, and provide a solid base of comparative information on the menstrual cycle of primates, including humans. They also discuss the sources and functions of both steroid and protein hormones from the placenta and the details of their effects on uterine function, placental development, fetal growth and well-being, and maternal responses to pregnancy. This book will become the standard reference source not only for reproductive scientists, but also for those clinicians who want better to understand the complex factors that affect pregnancy-and their pregnant patients.

Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research National Research Council 2003-08-22 Expanding on the National Research Council's Guide for the Care and Use of Laboratory Animals, this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals, and guidance on adapting these guidelines to various situations without hindering the research process. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important role that the researcher and veterinarian play in developing animal protocols. Methods for assessing and ensuring an animal's well-being. General animal-care elements as they apply to neuroscience and behavioral research, and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being and high-quality research. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research treats the development and evaluation of animal-use protocols as a decision-making process, not just a decision. To this end, it presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the intricacies of neuroscience and behavioral research.

Bovine Reproduction Richard M. Hopper 2014-08-18 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.

Reproductive Biology of the Mare O. J. Ginther 1992-01-01 * An extensively revised & expanded text & reference book for research scientists, veterinarians, teachers, students & others needing in-depth information on the biologic & applied aspects of mare reproduction. * Biologic mechanisms are treated in detail, but sections or chapters usually culminate in a summary or diagrammed conceptual overview that seems most consistent with current knowledge. * Comprehension is aided by illustrative material including photographs, photomicrographs, drawings & original conceptual diagrams. All chapters include a listing of

highlights & in most instances, a chronological list of milestones. * The applied ramifications of the biology covered in each chapter or section are discussed. In addition, the book includes a 64-page chapter on reproductive efficiency (e.g. pregnancy loss, twinning). * Considerable effort has been devoted to developing a realistic perspective of mare reproductive biology. Little is taken for granted; the appropriate experimental work is discussed in the development of conclusions & in the consideration of currently controversial matters. Research needs & project suggestions are noted throughout, as well as the potential for utilization of the mare as a research model. 107 colored photographs in 20 plates, 103 black-&-white photographs or plates, 207 graphs & tables, 55 drawings & conceptual diagrams, 1,875 references in a single bibliography. Order from: EQUISERVICES, 4343 Garfoot Road, Cross Plains, WI 53528 USA. \$93.00 USA, \$101.00 Outside USA.

Equine Reproductive Procedures John Dascanio 2021-02-17 This fully updated guide examines techniques in equine theriogenology The second edition of Equine Reproductive Procedures provides equine practitioners, veterinary students, and equine theriogenologists with a fully updated, practical guide to techniques in equine reproductive practice. This easy-to-use resource covers skills-based information with a clinical focus, taking an easy-to-follow step-by-step approach. The book covers topics related to the reproductive management of horses, including diagnostic techniques and therapeutic procedures for stallions, mares, and foals. Procedures highlighted in the book are supported with clear descriptions and photographs. Readers will also find a list of required supplies for the procedure and a reference list. · Provides step-by-step descriptions of techniques related to equine theriogenology · Serves as a valuable practice tool · Offers 39 new techniques not found in the first edition · Includes key updates to existing techniques Those studying equine reproduction and specialists in theriogenology will find this an essential 'how-to' guide for their practice library.

Animal Reproduction in Veterinary Medicine 2021-01-20 Despite efforts to control udder health in cattle, are the causes of mastitis are on the rise. Although at first glance the birth process seems normal in domestic pigs, what could be the problem? What are the clinical aspects of the oestrus cycle and pregnancy endocrinology in mares? What is Lidia cattle breeding and clinic? Does calf gender affect milk yield? Do insecticides reduce fertility? Could boar pheromones be an option to stimulate sow reproduction? Animal Reproduction in Veterinary Medicine is a book with the answers to such questions. It includes 'Induction and Synchronization of Estrus', which describes the protocol principles and tools. The practical approach this book takes will help students, farmers, veterinarians and academics to build an understanding of the concepts and procedures required to answer real questions by comprehending the basic function of real clinic data. Humans often endure results from the misunderstanding that to be doing well, they should make each thing themselves.

Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography Luc DesCôteaux 2009-09-24 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-have reference for ruminant and camelid practitioners, instructors, and students.

Ultrasonic Imaging and Animal Reproduction 1995

Ultrasonic Imaging and Animal Reproduction O. J. Ginther 1995

Small Animal Diagnostic Ultrasound E-Book John S. Mattoon 2020-08-28 Every clinician that has an interest in veterinary diagnostic imaging should have this reference! Small Animal Diagnostic Ultrasound, 4th Edition provides in-depth coverage of the latest techniques, applications, and developments in veterinary ultrasonography. It shows how ultrasonography can be an indispensable part of your diagnostic workup for everything from cardiac and hepatic disease to detached retinas and intestinal masses. All-new content on internal medicine is integrated throughout the text, addressing disease processes and pathologies, their evaluation, and treatment. Written by expert educators John S. Mattoon, Rance K. Sellon, and Clifford R. Berry, this reference includes access to an Expert Consult website with more than 100 video clips and a fully searchable version of the entire text. Logical organization makes reference quick and easy, with chapters organized by body system and arranged in a head-to-tail order. Coverage of Doppler imaging principles and applications includes non-cardiac organs and abdominal vasculature. Photographs of gross anatomic and pathological specimens accompany ultrasound images, showing the tissues under study and facilitating a complete interpretation of ultrasound images. More than 100 video clips demonstrate normal and abnormal conditions as they appear in ultrasound scans, including conditions ranging from esophageal abscess to splenic hyperplasia. More than 2,000 full-color images include the most current ultrasound technology. NEW! Updated content on diagnostic ultrasound ensures that you are informed about the latest developments and prepared to meet the challenges of the clinical environment. NEW! Coverage of internal medicine includes basic knowledge about a disease process, the value of various blood tests in evaluating the disease, as well as treatment strategies. NEW editors Rance K. Sellon and Clifford R. Berry bring a fresh focus and perspective to this classic text. NEW! Expert Consult website includes a fully searchable eBook version of the text along with video clips demonstrating normal and abnormal conditions as they appear in ultrasound scans. NEW! New and updated figures throughout the book demonstrate current, high-quality images from state-of-the-art equipment. NEW contributing authors add new chapters, ensuring that this book contains current, authoritative information on the latest ultrasound techniques.

Small Animal Imaging Fabian Kiessling 2017-05-22 This textbook is a practical guide to the use of small animal imaging in preclinical research that will assist in the choice of imaging modality and contrast agent and in study design, experimental setup, and data evaluation. All established imaging modalities are discussed in detail, with the assistance of numerous informative illustrations. While the focus of the new edition remains on practical basics, it has been updated to encompass a variety of emerging imaging modalities, methods, and applications. Additional useful hints are also supplied on the installation of a small animal unit, study planning, animal handling, and cost-effective performance of small animal imaging. Cross-calibration methods and data postprocessing are considered in depth. This new edition of Small Animal Imaging will be an invaluable aid for researchers, students, and technicians involved in research into and applications of small animal imaging.

Ultrasonic Imaging and Animal Reproduction: Horses O. J. Ginther 1995-01-01

Book Of Abstracts Of The 54th Annual Meeting Of The European Association For Animal

Production Y. Van Der Honing 2003-09

Dairy Production Medicine Carlos Risco 2011-08-04 This comprehensive book integrates new technology and concepts that have been developed in recent years to manage dairy farms in a profitable manner. The approach to the production of livestock and quality milk is multidisciplinary, involving nutrition, reproduction, clinical medicine, genetics, pathology, epidemiology, human resource management and economics. The book is structured by the production cycle of the dairy cow covering critical points in cow management. Written and edited by highly respected experts, this book provides a thoroughly modern and up-to-date resource for all those involved in the dairy industry.

Diagnostic Radiology and Ultrasonography of the Dog and Cat - E-Book J. Kevin Kealy 2010-09-15 Interpret diagnostic images accurately with Diagnostic Radiology and Ultrasonography of the Dog and Cat, 5th Edition. Written by veterinary experts J. Kevin Kealy, Hester McAllister, and John P. Graham, this concise guide covers the principles of diagnostic radiology and ultrasonography and includes clear, complete instruction in image interpretation. It illustrates the normal anatomy of body systems, and then uses numbered points to describe radiologic signs of abnormalities. It also includes descriptions of the ultrasonographic appearance of many conditions in dogs and cats. Updated with the latest on digital imaging, CT, MR, and nuclear medicine, and showing how to avoid common errors in interpretation, this book is exactly what you need to refine your diagnostic and treatment planning skills! Hundreds of detailed radiographs and ultrasonograms clearly illustrate principles, aid comprehension, and help you accurately interpret your own films. The normal anatomy and appearance for each body system is included so you can identify deviations from normal, such as traumatic and pathologic changes. Coverage of the most common disorders associated with each body system help you interpret common and uncommon problems. Coverage of radiographic principles and procedures includes density, contrast, detail, and technique, so you can produce the high-quality films necessary for accurate diagnosis. Clinical signs help you arrive at a clinical diagnosis. An emphasis on developing a standardized approach to viewing radiographs and ultrasonograms ensures that you do not overlook elements of the image that may affect proper diagnosis. Complete

coverage of diagnostic imaging of small animals includes all modalities and echocardiography, all in a comprehensive, single-source reference. Discussions of ultrasound-guided biopsy technique help you perform one of the most useful, minimally invasive diagnostic procedures. Single chapters cover all aspects of specific body compartments and systems for a logical organization and easy cross-referencing. Coverage of different imaging modalities for individual diseases/disorders is closely integrated in the text and allows easier comprehension. A consistent style, terminology, and content results from the fact that all chapters are written by the same authors.

Ultrasonic Imaging and Animal Reproduction: Cattle O. J. Ginther 1995

Diagnostic Ultrasound and Animal Reproduction M.A.M. Taverne 2013-06-29 The use of ultrasonic imaging techniques for diagnostic purposes in veterinary medicine and animal science has lagged far behind their use in human medicine. In the area of domestic animal reproduction, diagnostic ultrasonography has a relatively short history. Reports on B-mode scanning first appeared as late as 1969, when Stouffer and co-workers used it for counting foetal numbers in late gestation sheep. After Lindahl had re-evaluated the potential of two-dimensional ultrasonography for pregnancy diagnosis in sheep in 1976, results of the first large scale field-trials by Fowler and Wilkins on predicting foetal numbers during the first half of gestation in sheep were published as recently as 1980. In this year also the first paper, by Palmer and co-workers, on ultrasonic scanning of the uterus and ovaries in the mare appeared. The improvement of diagnostics which was achieved by the application of this technique is illustrated by its present routine use in clinical equine practice and sheep breeding. Besides offering an accurate early pregnancy diagnosis in species such as the horse, cow, sheep, goat, pig and dog, ultrasonography enables the visualization of ovarian and uterine structures for the identification of both physiological and pathological conditions. In this way it replaces or supplements the more common diagnostic techniques used by the general practitioner so far. Ultrasonography has also opened several new lines of research for clinicians and research workers.

Equine Breeding Management and Artificial Insemination Juan C. Samper 2009 Practical information on the reproductive management of both thoroughbred and warmblood breeding operations prepares horse breeders to effectively breed even problem mares and stallions.

Ultrasonic Imaging and Animal Reproduction: Horses O. J. Ginther 1995

Ultrasonography in Gynecology Botros R. M. B. Rizk 2014-10-16 Offers guidance on the use of ultrasonography in a clinical setting, covering benign and malignant gynecological disease and infertility.

Physical Principles of Medical Ultrasonics C. R. Hill 2005-08-05 The physical properties of ultrasound, particularly its highly directional beam behaviour, and its complex interactions with human tissues, have led to its becoming a vitally important tool in both investigative and interventional medicine, and one that still has much exciting potential. This new edition of a well-received book treats the phenomenon of ultrasound in the context of medical and biological applications, systematically discussing fundamental physical principles and concepts. Rather than focusing on earlier treatments, based largely on the simplifications of geometrical acoustics, this book examines concepts of wave acoustics, introducing them in the very first chapter. Practical implications of these concepts are explored, first the generation and nature of acoustic fields, and then their formal descriptions and measurement. Real tissues attenuate and scatter ultrasound in ways that have interesting relationships to their physical chemistry, and the book includes coverage of these topics. Physical Principles of Medical Ultrasonics also includes critical accounts and discussions of the wide variety of diagnostic and investigative applications of ultrasound that are now becoming available in medicine and biology. The book also encompasses the biophysics of ultrasound, its practical applications to therapeutic and surgical objectives, and its implications in questions of hazards to both patient and operator.

Compendium of Animal Reproduction Monika Ptaszynska 2009

Medical Imaging Systems Andreas Maier 2018-08-02 This open access book gives a complete and comprehensive introduction to the fields of medical imaging systems, as designed for a broad range of applications. The authors of the book first explain the foundations of system theory and image processing, before highlighting several modalities in a dedicated chapter. The initial focus is on modalities that are closely related to traditional camera systems such as endoscopy and microscopy. This is followed by more complex image formation processes: magnetic resonance imaging, X-ray projection imaging, computed tomography, X-ray phase-contrast imaging, nuclear imaging, ultrasound, and optical coherence tomography.

Arthur's Veterinary Reproduction and Obstetrics - E-Book David E. Noakes 2018-10-30 As the standard theriogenology text for veterinary students, Veterinary Reproduction and Obstetrics is also a great reference to keep post-graduation. The 10th edition of this book has been thoroughly updated to include normal reproduction and reproductive disorders, as well as diseases in the common and less common domestic species (dogs, cats, pigs, and horses as well as llamas, alpacas, and camels). This sorely needed information is vital for practicing in underdeveloped countries which lack the technology, equipment, and personnel offered in the U.S. With many international contributing authors, this one-of-a-kind text includes developments in reproductive biology and endocrinology from across the globe. Only textbook covering all major domestic mammalian species ensures you get consistent, authoritative advice on all species that experience challenges related to reproduction and obstetrics. Only book available that covers all aspects of theriogenology in all major domestic mammalian species recognizes the importance of species from every inch of the globe. A practical, clinical approach to the content provides you with the instruction you need to improve your clinical proficiency. Comparative aspects of theriogenology and obstetrics helps you to see beyond your species of immediate interest, and broaden your scope of knowledge and understanding of the discipline. Consistent leadership of David Noakes through nine previous editions makes this the most highly regarded text worldwide in this genre. NEW! Extensive coverage of less-common domestic species prepares you to work with these animals in developing countries where they're more common. NEW! Black and white images replaced with color pictures to optimize full-color design and demonstrate specific techniques. NEW! Additional international contributors provide you with a global, multi-faceted perspective on a variety of species.

Advancements and Breakthroughs in Ultrasound Imaging G P P Gunarathne 2013-06-05 Ultrasonic imaging is a powerful diagnostic tool available to medical practitioners, engineers and researchers today. Due to the relative safety, and the non-invasive nature, ultrasonic imaging has become one of the most rapidly advancing technologies. These rapid advances are directly related to the parallel advancements in electronics, computing, and transducer technology together with sophisticated signal processing techniques. This book focuses on state of the art developments in ultrasonic imaging applications and underlying technologies presented by leading practitioners and researchers from many parts of the world.

Practical Veterinary Diagnostic Imaging Suzanne Easton 2012-05-15 Practical Veterinary Diagnostic Imaging is an essential and practical guide to the various diagnostic imaging modalities that are used in veterinary practice. It moves from basic mathematic and physical principles through to discussion of equipment and practical methods. Radiographic techniques for both small and large animals are covered. There is a separate chapter devoted to ultrasound, as well as discussion of advanced imaging techniques such as fluoroscopy, computerised tomography and magnetic resonance imaging. The book also covers legislation and safety issues in the context of their impact on the veterinary practice. Presented with clear line diagrams and photographs, Practical Veterinary Diagnostic Imaging also provides revision points and self-assessment questions in each chapter to aid study. It is an ideal guide for student and qualified veterinary nurses. It is also a useful reference for veterinary students and veterinarians in general practice who want a basic guide to radiography and other imaging modalities. KEY FEATURES Everything you need to know about diagnostic imaging in veterinary practice in a language you can easily understand The basic principles of physics presented in simple terms Improves your positioning techniques with practical tips for best practice Clear guidance on the use of digital imaging to improve image quality and reduce radiation doses to patients Companion website with additional resources (available at www.wiley.com/go/easton/diagnosticimaging)

Equine Reproductive Physiology, Breeding and Stud Management, 5th Edition Mina C.G. Davies Morel 2020-11-02 Equine Reproductive Physiology Breeding and Stud Management, 5th Edition provides a thorough grounding in equine reproductive anatomy and physiology and applies it to all aspects of breeding and stud management. This includes detailed coverage of the management of mares, stallions and foals, as well as stud management practicalities such as infertility, artificial insemination and advanced reproductive techniques. This textbook, which has been updated throughout with additional material and references, continues to provide an authoritative treatise on equine reproduction for students, practising veterinary surgeons and stud managers.