

Canine Rehabilitation And Physical Therapy

This issue, assembled by Drs. Levine, Marcellin-Little, and Millis focuses on Rehabilitation in small animals. Topics include: Evidence for rehabilitation and physical therapy, Physical Agent Modalities in physical therapy and rehabilitation, Therapeutic Laser in physical therapy and rehabilitation, Principles and application of Stretching and Range of Motion, Principles and application of therapeutic exercises, Nutritional considerations in Rehabilitation, Rehabilitation and physical therapy of the medical and acute care patient, and more!

Interest in canine massage and physical therapy has grown as greater emphasis is placed on the general fitness and agility of dogs, as pets and as sporting animals. In this book the authors are concerned with the prevention, management and treatment of movement and allied disorders. It encompasses detailed assessments, treatment programmes that involve hands-on therapy along with dynamic remedial and strengthening techniques using exercise plans. Following succinct discussion of the relevant canine anatomy and physiology, the authors provide chapters on each of the key topics: movement and muscles; exercise; preparation for sports performance; rehabilitation techniques; massage and physical therapy; and common relevant pathologies affecting dogs. Physical Therapy and Massage for the Dog is of interest to all those involved in canine welfare including veterinary practitioners, veterinary students, therapists, dog owners and dog trainers.

Hip dysplasia is one of the most common orthopedic conditions of dogs. This book is for dog owners to help them understand hip dysplasia, its causes, diagnosis, treatments, and preventative strategies.

Prepare for VTNE success! Review Questions and Answers for Veterinary Technicians, 6th Edition provides 5,000 VTNE-style questions that have been reviewed and updated to reflect the latest changes to the Veterinary Technician National Examination. The book begins with multiple-choice questions on basic knowledge, including anatomy and physiology, hospital management, calculations, and terminology. It continues with a Q&A review of core subjects such as pharmacology, surgical nursing, laboratory procedures, diagnostic imaging, and pain management. Written by veterinary technology educator Heather Prendergast, this review includes an Evolve website allowing you to create customized, timed practice exams that mirror the VTNE experience. More than 5,000 multiple-choice questions are rigorously reviewed, mirror the type of questions found on the VTNE, and are designed to test factual knowledge, reasoning skills, and clinical judgment. Detailed rationales are included in the print text and on the Evolve website, reinforcing student knowledge and providing the reasoning behind answers. Organization of the book into primary subject areas reflects the latest version of the VTNE. Customized exam generator on Evolve offers a simulated test-taking experience with customized practice tests and timed practice exams with instant feedback and extended rationales. NEW!

More than 200 new questions are added to this edition.

This issue of *Veterinary Clinics of North America: Small Animal Practice*, with Editors Drs. Tisha Harper and Ryan Butler, focuses on Hip Dysplasia. Article topics include: Etiopathogenesis of hip dysplasia, incidence and genetics; Clinical signs and physical examination findings; Diagnostic imaging; OFA and PennHip Treatments; Medical management of hip dysplasia; Surgical management of hip dysplasia; Pain management – Hip Denervation; Juvenile Pubic Symphysiodesis; Triple pelvic osteotomy (TPO), and double pelvic osteotomy (DPO); Total Hip Replacement; Femoral Head and Neck Excision; The role of physical therapy for dogs with hip dysplasia.

Advances in Small Animal Care reviews the year's most important questions in small animal veterinary medicine. A distinguished editorial board identifies key areas of major progress and controversy and invites preeminent specialists to contribute original articles devoted to these topics. These insightful overviews in small animal care bring concepts to a clinical level and explore their everyday impact on patient care. Provides in-depth, clinical reviews in small animal care, providing actionable insights for clinical practice. Presents the latest information in the field under the leadership of an experienced editorial team; Authors synthesize and distill the latest research and practice guidelines to create these timely topic-based reviews.

The only book to cover physical therapy for dogs, *Canine Rehabilitation and Physical Therapy*, 2nd Edition provides an understanding of physical therapy techniques and intervention for dogs suffering from debilitating conditions. The book includes four new chapters, hundreds of illustrations that highlight key concepts and procedures, and case studies and specific therapies that can be used as guidelines for the management of clinical patients. Author Darryl Millis offers the perspective of a veterinarian skilled in orthopedics and orthopedic surgery, and co-author David Levine is a respected physical therapist with experience working with both dogs and human patients. By applying the principles of physical therapy described in this unique book, and by viewing therapy and exercise videos on a companion website, you can help dogs achieve a faster and more complete recovery. Detailed drawings of comparative anatomy between dogs and people make it easier to apply your knowledge of human anatomy to the anatomy of the dog. Coverage of therapeutic modalities describes their application to dogs and how to adapt common "human" modalities for dogs. Several chapters on exercising dogs cover the basic principles of exercise and how they may be applied to dogs, and how to adapt common "human" exercises for dogs. Unique coverage of physical therapy for specific diagnoses describes treatment for a variety of conditions. A chapter on physical examination covers everything from general orthopedic assessment to surgery. Invaluable specific protocols for postoperative treatment help to ensure the successful healing of dogs and their return to full mobility. Sample protocols provide a useful reference for common conditions in patients not experiencing complications. Medical record

forms are included, and are easy to modify to meet the needs of your veterinary practice. New chapters keep you up to date with coverage of joint mobilization, rehabilitation of the athletic patient, biomechanics of rehabilitation, and physical therapy for wound care. A companion website includes 40 narrated video clips of various modalities and exercises used to correct problems with lameness, hip disorders, and gait analysis, plus downloadable and printable orthopedic, neurologic, and physical rehabilitation forms, in addition to a client information worksheet, referral form and letter, and a daily flowsheet form.

Information from research with animal models of immobilization and early motion following joint surgery drove human orthopedic surgeons to require physical therapy in their patients. This provided the basis for the physical therapy profession to be formed several decades ago. The same benefits of motion following joint surgery have not yet been explored in veterinary patients, as the first juvenile steps toward postoperative treatment have only been undertaken in the past few years. Few peer-reviewed manuscripts on rehabilitation in animals exist, and recommendations for the design and implementation of rehabilitation programs are nonexistent. This manuscript should serve as one of the first examples of how to establish a rehabilitation program for the dog. This is not an endpoint but rather the beginning. This serves to document the protocols and design of the Iowa State University, Veterinary Teaching Hospital, Canine Rehabilitation Center. This manuscript includes the design and implementation of this program, including but not limited to safety issues, water quality issues, patient care issues, and protocol recommendations. It also includes two of the first scientific reports submitted to peer-reviewed veterinary literature. The first, an evaluation of limb function comparing rehabilitation and traditional exercise-restriction after surgery for ruptured cranial cruciate ligaments, was accepted for publication by the Journal of the American Veterinary Medical Association. The other, a kinematic comparison of terrestrial and aquatic rehabilitation, has been submitted for publication. These scientific reports and this manuscript promote the use of aquatic rehabilitation for canine patients following a variety of orthopedic surgeries. Canine Sports Medicine and Rehabilitation, Second Edition offers a thoroughly revised and updated new edition of this gold standard reference for all aspects of sports medicine and rehabilitation, encompassing basic science and integrated veterinary and physical therapy approaches. Presents current, state-of-the-art information on sports medicine and rehabilitation in dogs Offers perspectives from an international list of expert authors Covers all topics related to veterinary care of the canine athlete and all active dogs Includes illustrations and photographs throughout to demonstrate key concepts Provides clinical cases that set the information in context

Reflecting a rapidly growing area of interest in veterinary practice, this practical, pocket-sized guide to small animal physiotherapy has been designed for quick reference, providing the ideal guide for busy practice veterinary nurses when they really need it. Reflects the need for a text in this rapidly growing area of interest, providing the first on this topic for veterinary nurses Designed in a pocket-sized format so that VNs can carry it around for quick reference The author has ideal experience for this field, having worked as both a veterinary nurse and an animal physiotherapist This book is accompanied by a companion website which contains videos and self-test questions and answers

Written by veterinarians across multiple disciplines with expertise in the canine musculoskeletal system, this book offers an easy-to-use guide for diagnosing lameness in dogs. Canine Lameness focuses on evaluation and diagnostic techniques, with descriptions of the most common reasons for lameness. Arranged by anatomical region, this approach complements the clinical assessment of a patient. Designed for ease of use, the book puts all the information needed to evaluate and diagnose a dog's orthopedic status at the reader's

fingertips. Particular emphasis is placed on orthopedic examination, radiographic anatomy, and abnormal radiographic findings. Features of Canine Lameness: Offers a comprehensive guide to diagnosing musculoskeletal diseases causing lameness in dogs Brings clinical examination, diagnostic imaging, and relevant musculoskeletal anatomy together into a single resource Takes a logical, regions-based approach, outlining diagnostic steps and differential diagnoses for each specific area Focuses on commonly encountered conditions while highlighting critical diagnostic steps to ensure other, less common, differential diagnoses are not missed Includes access to a companion website with video clips demonstrating detailed steps of the examination, techniques, and lameness conditions Canine Lameness is an excellent resource for veterinarians and staff involved in the diagnosis of lameness in dogs, and will be of great benefit to all animal health professionals working in the area of canine orthopedics.

Master all the animal care duties of a veterinary technician! McCurnin's Clinical Textbook for Veterinary Technicians and Nurses, 10th Edition provides a solid foundation in every aspect of veterinary technology, including care of small and large animals, birds, reptiles, and small mammals. Procedure boxes offer step-by-step guidelines to performing key tasks, and use of the veterinary technician practice model helps to improve your critical thinking and decision-making skills. Written by vet tech experts Joanna Bassert, Angela Beal, and Oreta Samples, this illustrated guide prepares you for success on the Veterinary Technician National Exam (VTNE®) and in clinical practice. 2017 winner of the William Holmes McGuffey Longevity Award ("McGuffey") from the Text & Academic Authors Association (TAA), which recognizes textbooks and learning materials whose excellence has been demonstrated over time. Case presentations provide real-life scenarios, so students can practice critical thinking and decision-making skills. Step-by-step instructions show students how to perform dozens of procedures, making information easy to access in emergency and clinical situations. More than 1,000 full-color photographs and line drawings depict veterinary technology concepts and techniques. Chapter outline, learning objectives, and key terms begin each chapter, focusing study on need-to-know material. Technician Notes highlight key points relating to the role of the veterinary technician. Coverage of large animal care is integrated throughout the book, including medical records, dentistry, physical examination, surgical instrumentation, surgical assistance, emergency care, and euthanasia, as well as separate Large Animal chapters. Comprehensive chapters on pharmacology, pain management, restraint, and veterinary oncology provide a broader understanding of the responsibilities of a technician. Coverage of zoonotics is threaded throughout each chapter, describing how a disease may affect the host, how it is spread, how it is treated, and the necessary safety precautions. Care of Birds, Reptiles, and Small Mammals chapter describes care and treatment of these increasingly popular pets. Student workbook reinforces understanding with review questions, case presentations, and clinical applications, as well as photo-based quizzes and other student exercises. Available separately.

Hospice and Palliative Care for Companion Animals: Principles and Practice offers the first comprehensive reference to veterinary hospice and palliative care, with practical guidance and best practices for caring for sick and dying animals. Presents the first thorough resource to providing veterinary hospice and palliative care Offers practical guidance and best practices for caring for sick and dying animals Provides an interdisciplinary team approach, from a variety of different perspectives Gives concrete advice for easing pets more gently through their final stage of life Includes access to a companion website with client education handouts to use in practice

Now in full color, Practical Guide to Canine and Feline Neurology, Third Edition provides a fully updated new edition of the most complete resource on managing neurology cases in small animal practice, with video clips on a companion website. •Provides comprehensive information for diagnosing and treating neurological conditions •Printed in full color for the first

time, with 400 new or improved images throughout •Offers new chapters on differential diagnosis, magnetic resonance imaging, and movement disorders •Retains the logical structure and easy-to-follow outline format of the previous editions •Includes access to video clips of specific disorders and a how-to video demonstrating the neurologic assessment online and a link to a digital canine brain atlas at www.wiley.com/go/dewey/neurology Now in full color, *Practical Guide to Canine and Feline Neurology, Third Edition* provides a fully updated new edition of the most complete resource on managing neurology cases in small animal practice, with video clips on a companion website. •Provides comprehensive information for diagnosing and treating neurological conditions •Printed in full color for the first time, with 400 new or improved images throughout •Offers new chapters on differential diagnosis, magnetic resonance imaging, and movement disorders •Retains the logical structure and easy-to-follow outline format of the previous editions •Includes access to video clips of specific disorders and a how-to video demonstrating the neurologic assessment online and a link to a digital canine brain atlas at www.wiley.com/go/dewey/neurology

A Practical Guide to Canine and Feline Neurology provides students and clinicians with the tools necessary to understand and be clinically proficient with neurology cases faced in small animal practice. Highlights of the Second Edition include new coverage of breed predisposition, signalment and history, spinal disorders, and expanded coverage of pain management and diagnostic imaging. Designed as a user-friendly guide, practitioners, specialists, and students alike will enjoy the book's practical and clinically relevant approach.

Introducing one of the first primers on palliative and hospice care for the small animal veterinarian! Guest edited by Dr. Tami Shearer, this volume will include topics such as: the history of pet hospice, delivery systems of veterinary hospice and palliative care, 5-step pet hospice plan, a veterinarian's role in helping pet owners with decision making, quality of life assessment techniques, assessment and treatment of pain in life-limiting disease, the role of rehabilitation techniques for hospice and palliative care patients, the role of nutrition and alternative care methods in hospice and palliative care patients, emotional support tips, ethical considerations in life-limiting conditions, case studies, and much more!

Since the publication of the first edition, interest in the field has continued to rise, most notably in pain management. *Anesthesia and Analgesia in Laboratory Animals* focuses on the special anesthetic, analgesic, and post-operative care requirements associated with experimental surgery. Fully revised and updated this new edition provides the reader with agents, methods, and techniques for anesthesia and analgesia that ensure humane and successful procedural outcomes. * New to this edition - Section V which deals with new issues covering pain research, ethical issues, legal issues, and imaging studies. S * New to this edition - Section IV now includes chapters on ferrets, birds, reptiles, amphibians, fish, and invertebrates. *

Bioinspired materials can be defined as the organic or inorganic materials that mimic naturally occurring substances. With applications in a number of fields such as biomedical, chemical, mechanical, and civil engineering, research on the development of biologically-inspired materials is essential to further advancement. *Emerging Research on Bioinspired Materials Engineering* provides

insight on fabrication strategies for bioinspired materials as well as a collective review of their current and prospective applications. Highlighting essential research on bioinspired processes and the nano-structural, physical, chemical, thermal, and mechanical aspects of biologically-inspired materials, this timely publication is an ideal reference source for engineers, researchers, scholars, and graduate students in the fields of materials science and engineering, nanotechnology, biotechnology, and biomedical materials science.

From medical disorders to toxicology to infectious disease, Kirk's Current Veterinary Therapy XIV includes the most up-to-date information from leading experts in the veterinary field with over 260 new chapters. The user-friendly format presents content clearly to help you easily find the information you need and put it in practice. Selective lists of references and suggested readings provide opportunities for further research, and the Companion CD includes helpful information from the previous volume that still applies to current practice. Authoritative, reliable information on diagnosis includes details on the latest therapies. An organ-system organization makes it easy to find solutions for specific disorders. Concise chapters are only 2-5 pages in length, saving you time in finding essential information. Well-known writers and editors provide accurate, up-to-date coverage of important topics. A convenient Table of Common Drugs, updated by Dr. Mark Papich, offers a quick reference to dosage information. Cross-references to the previous edition make it easy to find related information that remains valid and current. A list of references and suggested readings is included at the end of most chapters. A fully searchable companion Evolve website adds chapters from Kirk's Current Veterinary Therapy XIII, with information that has not changed significantly since its publication. It also includes an image collection with over 300 images, and references linked to PubMed. Useful appendices on the website provide a virtual library of valuable clinical references on laboratory test procedures and interpretation, normal reference ranges, body fluid analyses, conversion tables, nutritional profiles, a drug formulary, and more. More than 260 new chapters keep you at the leading edge of veterinary therapy.

Laser Therapy in Veterinary Medicine: Photobiomodulation is a complete guide to using therapeutic lasers to treat veterinary patients, focusing on practical information. Offers a comprehensive resource for incorporating therapeutic lasers in veterinary practice Focuses on practical information tailored for the veterinary clinic Written by 37 leading experts in veterinary laser therapy Provides a thorough foundation on this standard-of-care modality Emphasizes clinical applications with a real-world approach

This new book deals systematically with the assessment and treatment of small animal neurological patients in light of latest research findings and greatly improved imaging techniques. The authors first discuss step-wise neurological and systemic approaches to common emergency cases—examination, critical care and rapid assessment—based on presenting signs. They then deal in depth

with the pathophysiology, treatment options and likely prognoses of each of the more common types of neurological emergency, be it vascular accident, infection, trauma, seizure, acute disease or neoplasia. Detailed support techniques and therapies are provided on emergency anaesthesia, pain management, fluid therapy, post-operative care and physical rehabilitation. The book will appeal to small animal practitioners, specialists, residents, course directors and students interested in neurology, emergency medicine and critical care, internal medicine, imaging and pathology.

Covering the most common joint disease in dogs, including osteoarthritis, this handbook explains treatment options, including nutrition and weight management, exercise, physical therapy, medications and other supplements, surgical interventions, and alternative therapies (acupuncture, chiropractic, and herbal medicine).

The practice of animal physical therapists provide rehabilitative care to animals who have had surgery, been injured, or suffer from chronic pain. This book explores various branches of the field and covers pertinent training, education, job duties, career path, and employment opportunities. Lively text profiles professionals on the job, and also delves into the emotional side of a career committed to serving animals. This in-depth view gives young readers a true glimpse into the world of animal care, rehabilitation, and conservation.

"Practical Physiotherapy for Small Animal Practice" provides a concise and accessible introduction to physiotherapy that demonstrates its benefits to both veterinary patients and practitioners. One of the fastest growing specialties in veterinary medicine, this book will help you to successfully introduce physiotherapy into your practice improving rehabilitation and recovery of dogs and cats. Key features: Covers an array of different treatments and techniques, such as manual therapies, therapeutic exercise, electrotherapy, and hydrotherapy Includes practical advice on selecting equipment, examinations, treatment protocols, and charging Offers strategies for introducing physiotherapy into the practice schedule, including space and staffing requirements Companion website at www.wiley.com/go/practical-physiotherapy-for-small-animals provides over 50 printable client education handouts for download Suitable for veterinarians in small animal practice, as well as other interested members of the veterinary team including veterinary nurses and practice managers.

A thoroughly updated edition of this essential reference guide for physiotherapists and physical therapists, looking to apply the proven benefits of physiotherapy to the treatment of companion and performance animals. Seven new chapters provide greatly expanded coverage of practical treatment and rehabilitation Includes reviews of different physiotherapy techniques, drawing on both human and animal literature Discusses approaches in small animal medicine as well as for elite equine athletes Provides applied evidence-based clinical reasoning model, with case examples Now in full colour with many more illustrations

Canine Sports Medicine and Rehabilitation offers a gold-standard, comprehensive reference on all aspects of sports medicine and rehabilitation for all dogs. Written by an outstanding group of leaders in the field, the book covers topics ranging from biomechanics, exercise physiology, nutrition, and common orthopedic conditions of the canine athlete to in-depth rehabilitation and integrative therapies for all dogs. Each chapter includes case studies and numerous color images to demonstrate the concepts discussed. Encompassing basic science and integrated veterinary and physical therapy approaches, Canine Sports Medicine and Rehabilitation is a complete resource for veterinarians, physical therapists, veterinary technicians and anyone interested in working with canine athletes or in offering rehabilitation therapy in their practice.

Bridging the gap between human physical therapy and veterinary medicine, Canine Rehabilitation and Physical Therapy, 2nd Edition provides vets, veterinary students, and human physical therapists with traditional and alternative physical therapy methods to effectively evaluate and treat dogs with various debilitating conditions. Coverage includes treatment protocols for many types of cutaneous, neurologic, and musculoskeletal injuries to facilitate a faster and more complete recovery. Invaluable protocols for conservative and postoperative treatment ensure the successful healing of dogs and their return to full mobility. Printable medical record forms on the companion website, including client information worksheets, referral forms, orthopedic evaluation forms, and more, can be customized for your veterinary practice. Six completely updated chapters on exercising dogs define the basic principles of aquatic and land-based exercise and how they may be applied to dogs, as well as how physical therapy professionals can adapt common "human" exercises to dogs. Numerous chapters on therapeutic modalities, including therapeutic lasers, illustrate how physical therapy professionals can adapt common "human" modalities to dogs. Physical examination chapters offer comprehensive information on orthopedics, neurology, and rehabilitation. NEW! Companion website with 40 narrated video clips of modalities and exercises used by physical therapists demonstrates effective ways to treat various neurologic and musculoskeletal problems in dogs. NEW! Fourteen new chapters describe the latest advances in the areas of joint mobilization, rehabilitation of the athletic patient, biomechanics of rehabilitation, therapeutic lasers, and physical therapy for wound care.

Master the veterinary technician's role in caring for critically ill or injured pets! Small Animal Emergency and Critical Care for Veterinary Technicians, 4th Edition provides quick access to dozens of common, life-saving protocols and procedures. Each treatment technique is described in step-by-step detail and illustrated in full color. To prepare you for the veterinary setting, a team approach is emphasized. This edition adds three new chapters and includes practical, easy-to-apply medical math and scenario-based exercises. Written by experienced veterinary technicians Andrea Battaglia and Andrea Steele, this resource prepares you for success on the VTNE, in veterinary practices, and in animal

hospital emergency departments. Step-by-step instructions show how to perform specific procedures and techniques, guiding you through key assessment and treatment techniques. Technician Notes highlight specific procedures, with diagrams, photos, and detailed instructions, providing at-a-glance guidance for students and practicing vet techs. Comprehensive coverage of pain management, respiratory emergencies, and urologic emergencies provides cutting-edge treatment options for a wide variety of commonly seen presenting problems. Review and preparation for the VTNE (Veterinary Technician National Examination) is provided by Medical Math exercises and questions based on real-world scenarios. Coverage of equipment and techniques includes the latest advances in basic lab equipment, fluid therapy, and oxygen therapy. Equipment lists are provided at the beginning of most chapters, ensuring that you will have the appropriate tools on hand for each type of emergency situation. Practical exercises prepare you for success on the VTNE. NEW! Three new chapters are included: Supporting the Critically Ill or Injured through Physical Rehabilitation Techniques, Fostering Wellbeing in the ER and ICU, and Managing Pharmaceuticals in the ER. NEW! Chapter pretests assess your knowledge and allow you to identify your strengths and weaknesses. NEW and UPDATED photos and illustrations enhance your understanding by accurately depicting the clinical signs encountered in emergency and critical care.

Animal Physiotherapy is an essential reference guide for physiotherapists looking to apply the proven benefits of physiotherapy to the treatment of companion and performance animals. Animal Physiotherapy is a growing profession of physiotherapists who have broadened their expertise from the well-established human sphere to animals. The positive perception of physiotherapy in the human sphere, together with an increased awareness of options and expertise available for animals has resulted in a strong demand for physiotherapy for animals. For the physiotherapist this book provides essential applied background information on animal behaviour, nutrition, biomechanics and exercise physiology. For veterinarians and others who work with animals, the book reviews the scientific principles behind the practice of physiotherapy, and what it can achieve. Includes reviews of different physiotherapy techniques, drawing on both human and animal literature; Discusses approaches in small animal medicine as well as for elite equine athletes; Includes applied evidence-based clinical reasoning model, providing case examples

29 Physical Rehabilitation of the Neurological Patient -- Introduction -- Neurorehabilitation -- Physical Modalities -- Therapeutic Exercises -- Prevention and Treatment of Bad Habits -- Management of the Recumbent Patient -- References -- Index -- End User License Agreement

Oncology for Veterinary Technicians and Nurses is a handbook of cancer care from the technician perspective. Providing information on cancer from cause to treatment, this comprehensive resource focuses on the nursing role, emphasizing technical procedures, staging, and patient support. By equipping veterinary

support staff with the information they need to properly and safely perform cancer treatments, *Oncology for Veterinary Technicians and Nurses* promotes working as part of a team to provide optimal care for dogs and cats with cancer.

Physical rehabilitation is a burgeoning area in veterinary medicine, and the Clinics has not covered this area before. Saunders book authors Levine and Millis have focused this issue on clinical applications by offering chapters on rehabilitation of the neurologic patient, the athletic dog, and the medical care patient. Additional chapters will cover orthotics, physical agent modalities, and manual therapies.

Physical Rehabilitation for Veterinary Technicians and Nurses provides a comprehensive, illustrated guide to all practical aspects of veterinary physical rehabilitation for veterinary technicians and nurses. Provides a comprehensive introduction to physical rehabilitation for veterinary technicians and nurses Offers a thorough grounding in the knowledge and skills needed to become a valued member of a veterinary rehabilitation team Features contributions from leading practitioners from across the United States sharing their knowledge and expertise on all aspects of veterinary physical rehabilitation Presents practical tips, tricks and advice to meet common challenges faced by rehabilitation technicians Covers pain management, hands-on therapy, therapeutic exercises, patient motivation, troubleshooting, and more

The fourth edition of *Small Animal Surgery* serves as a one-stop resource for authoritative information on all aspects of small animal surgery. Coverage includes basic procedures such as spays, castrations, and declaws, as well as more advanced surgeries like craniotomy, ventral slots, and lung lobectomy. New contributors bring a fresh perspective and discuss the latest advances in key areas such as imaging modalities, regenerative medicine, minimally invasive surgery, and neurology. Access to a companion website provides a fully searchable version of the book, bi-monthly content updates, videos, aftercare instructions, case presentations, and a fracture planner. Well illustrated, step-by-step instructions for surgical techniques provide quick reference to practical how-to information in emergency and clinical situations. Coverage of cutting-edge imaging techniques, including radiographs, CT, MRI, and digital imaging, explores the most useful imaging modalities for demonstrating areas of surgical concern. Access to the continually updated companion website for the life of this edition includes: Bi-monthly content updates provide cutting-edge information on surgery developments Video clips of step-by-step surgical procedures Customizable and printable aftercare instructions Interactive Fracture Planner Case presentations Neurosurgery video clips References linked to PubMed Over 1500 full color images offer exceptionally clear representations of anatomy and currently accepted surgical techniques, including approaches and closure. Anesthesia Protocols offer easy access to recommendations for anesthetizing animals with particular diseases or disorders. Notes boxes call attention to specific data, offering at-a-glance access to key information. A new chapter on

neurologic examination provides a solid foundation in neuroanatomy, electrodiagnostics, and basic MRI physics and principles, enabling you to perform a proper neurologic exam to detect problems in cats and dogs, some of which can be corrected via surgical repair. A new chapter on regenerative medicine provides the most current information on stem cell research. Differential diagnosis tables and boxes offer quick access to vital information, including how to avoid misdiagnosis of disorders that may mimic more commonly encountered surgical neurologic problems that are not actual disorders requiring surgical repair.

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