

# Equine Anesthesia Elsevier Ebook On VitalSource Retail Access Card Monitoring And Emergency Therapy 2e

Yeah, reviewing a ebook **Equine Anesthesia Elsevier Ebook On VitalSource Retail Access Card Monitoring And Emergency Therapy 2e** could increase your near associates listings. This is just one of the solutions for you to be successful. As understood, exploit does not recommend that you have wonderful points.

Comprehending as well as concurrence even more than extra will provide each success. next-door to, the notice as with ease as insight of this Equine Anesthesia Elsevier Ebook On VitalSource Retail Access Card Monitoring And Emergency Therapy 2e can be taken as capably as picked to act.

**Guide to Dissection of the Horse and Ruminants** Terri L. Clark 2018  
**Saunders Comprehensive Review for the NAVLE** Patricia A. Schenck 2010  
This volume consists of review material covering all the areas on the NAVLE. The text is arranged by animal species with additional sections on Basic Sciences, Practice Management, and Public Health. The accompanying CD-ROM contains two practice tests.

*Anesthesia and Analgesia for Veterinary Technicians 5th Edition* John Thomas DVM 2016-04-22

**Core Curriculum for Critical Care Nursing** JoAnn Alspach 1991  
New edition which contains everything required by critical care nurses for practice and certification. Includes all the content on the CCRN examination blueprint. Also useful as a clinical reference providing quick access to essential information needed for care of critically ill clients.

**Berry & Kohn's Operating Room Technique, 12/e**

**Handbook of Local Anesthesia, 7e: South Asia Edition-E-Book**

Stanley F Malamed, Dds 2019-08-27  
Handbook of Local Anesthesia, 7e: South Asia Edition-E-book

**McDonald and Avery's Dentistry for the Child and Adolescent - E-Book** Jeffrey A. Dean 2015-08-10  
You can count on McDonald: the go-to

source for expert, complete coverage of oral care for infants, children, and teenagers for over half a century. McDonald and Avery's *Dentistry for the Child and Adolescent*, 10th Edition discusses pediatric examination, development, morphology, eruption of the teeth, and dental caries in depth — and emphasizes prevention and the treatment of the medically compromised patient. Boasting a new design and handy Evolve site, this new edition by Jeffrey A. Dean equips you with the latest diagnostic and treatment recommendations in the fast-growing field of pediatric dentistry. Complete, one-source coverage includes the best patient outcomes for all of the major pediatric treatments in prosthodontics, restorative dentistry, trauma management, occlusion, gingivitis and periodontal disease, and facial esthetics. A clinical focus includes topics such as radiographic techniques, dental materials, pit and fissure sealants, and management of cleft lip and palate. Practical discussions include practice management and how to deal with child abuse and neglect. Evolve site provides you with the best learning tools and resources. UPDATED! More emphasis on preventative care and treatment of medically compromised patients helps you provide more effective care. NEW! Easier-to-follow design.

*Fundamentals of Complementary and Alternative Medicine - E-Book*

Marc S. Micozzi 2010-04-01 Focusing on emerging therapies and those best supported by clinical trials and scientific evidence, *Fundamentals of Complementary and Alternative Medicine* describes some of the most prevalent and the fastest-growing CAM therapies in use today.

Prominent author Dr. Marc Micozzi provides a complete overview of CAM, creating a solid foundation and context for therapies in current practice. Coverage of systems and therapies includes mind, body, and spirit; traditional Western healing; and traditional ethnomedical systems from around the world. Discussions include homeopathy, massage and manual therapies, chiropractic, a revised chapter on osteopathy, herbal medicine, aromatherapy, naturopathic medicine, and nutrition and hydration. With its wide range of topics, this is the ideal CAM reference for both students and practitioners! An evidence-based approach focuses on treatments best supported by clinical trials and scientific evidence. Coverage of CAM therapies and systems includes those most commonly encountered or growing in popularity, so you carefully evaluate each treatment. Global coverage includes discussions of traditional healing arts from Europe, Asia, Africa, and the Americas. Longevity in the market makes this a classic, trusted text. Expert contributors include well-known writers such as Kevin Ergil, Patch Adams, Joseph Pizzorno, Victor Sierpina, and Marc Micozzi himself. Suggested readings and references in each chapter list the best resources for further research and study. New, expanded organization covers the foundations of CAM, traditional Western healing, and traditional ethnomedical systems from Asia, Africa, and the Americas, putting CAM in perspective and making it easier to understand CAM origins and contexts. NEW content includes legal and operational issues in integrative medicine, creative and expressive arts therapies, ecological pharmacology, hydration, mind-body thought and practice in America, osteopathy, reflexology, South American healing, traditional medicines of India, and Unani medicine. Revised and updated chapters include aromatherapy, classical acupuncture, energy medicine, biophysical devices (electricity, light, and magnetism), massage and touch therapies, traditional osteopathy, reflexology, vitalism, and yoga. New research studies explain how and why CAM therapies work, and

also demonstrate that they do work, in areas such as acupuncture, energy healing, and mind-body therapies. Expanded content on basic sciences includes biophysics, ecology, ethnomedicine, neurobiology, and psychoneuroimmunology, providing the scientific background needed to learn and practice CAM and integrative medicine. Expanded coverage of nutrition and hydration includes practical information on Vitamin D and healthy hydration with fluid and electrolytes.

[Green's Operative Hand Surgery](#) Scott W. Wolfe 2011 *Green's Operative Hand Surgery*, edited in its Sixth Edition by Scott W. Wolfe, MD, provides today's most complete, authoritative guidance on the effective surgical and non-surgical management of all conditions of the hand, wrist, and elbow. Now featuring a new full-color format, photographs, and illustrations, plus operative videos and case studies online at Expert Consult, this new edition shows you more vividly than ever before how to perform all of the latest techniques and achieve optimal outcomes. Access the complete contents online, fully searchable, at [expertconsult.com](http://expertconsult.com). Overcome your toughest clinical challenges with advice from world-renowned hand surgeons. Master all the latest approaches, including the newest hand implants and arthroplastic techniques. Get tips for overcoming difficult surgical challenges through "Author's Preferred Technique" summaries. See how to perform key procedures step by step by watching operative videos online. Gain new insights on overcoming clinical challenges by reading online case studies. Consult it more easily thanks to a new, more user-friendly full-color format, with all of the photos and illustrations shown in color. The undisputed leading reference in hand, wrist, and elbow surgery is improved with full color, new surgical video and case studies and a continued emphasis on optimal surgical management of upper extremity conditions.

**Guide to the Dissection of the Dog** Malcolm E Miller 2020-12-06 This manual represents an experiment both as to choice of animal and plan of work. The dog has been chosen as subject of dissection instead of a large herbivore for several reasons. The student-specimen ratio can be reduced with a resultant increase in time for dissection by the individual

student. At the same time more material can be covered in a given period than by using the horse or ox owing to the smaller size of the specimen and the ease with which structures are cleaned and visualized. These and other advantages result not only in better preparation of a student to study the more economically important animals, but also increases the time that can be devoted to the study of those regions most often involved surgically. The dog is cheaply purchased, preserved and prepared for dissection. After the arteries are filled with red latex they stand out more vividly than in life. The large systemic veins can also be injected. A large part of a dissected dog can be seen in a single field of vision. Structures can be left in place, e.g., the heart is dissected without removing it from the thorax. Terms used in veterinary anatomy are largely taken from human anatomy. Since in the dog structures closely resemble those of man, an advantage in making homologies to the mutual benefit of teacher and student results. In general all terms have been Anglicized except most names of muscles, and even these Latin names have been used as if they were English in some places. The Latin terms were retained to differentiate muscles from nerves and vessels; furthermore most veterinarians prefer to use them. The improved BNA or INA terminology has been used almost entirely. Needless to say the excellent texts of Ellenberger and Baum, and Sisson and Grossman have been used frequently as references. It is probable that both have influenced the terminology more than they should, since a uniform terminology is desired by all anatomists.

Pharmacology Joyce LeFever Kee 2014-01-30 Previous edition has subtitle: "a nursing process approach."

*Saunders Nursing Drug Handbook 2023 - E-Book* Robert J. Kizior 2022-02-16 More than 1,000 generic name drugs, encompassing over 4,000 trade name drugs, are organized alphabetically with A-to-Z tabs for quick and easy access. UNIQUE! Herbal information is included in the appendix and on the Evolve website, covering the interactions and effects of commonly encountered herbs. Detailed information for each drug includes side effects listed by frequency, and adverse effects and reactions requiring prompt intervention. Drugs by Disorder are listed in

the front of the book for easy reference, showing common disorders and the drugs most often used for treatment. Drug Classifications section features an overview of actions and uses for drug families. Black Box Alerts and High Alert drugs are highlighted to promote safe administration of drugs that pose the greatest risk for patient harm, and Do Not Confuse With warnings call out drug names that sound alike or look alike. Top 100 Drugs list identifies the most frequently administered drugs. Cross-references to the 400 top U.S. brand-name drugs are located throughout the book for easy access. List of newly approved medications in the front of the book makes it easy to locate the latest drugs. Nursing considerations are organized in a functional nursing process framework and include baseline assessment, intervention/evaluation, and patient/family teaching. Information on lifespan and disorder-related dosage variations covers special considerations for pediatric, geriatric, hepatic, and immune- or renal-compromised patients. Extensive IV content includes IV compatibilities/IV incompatibilities and breaks down key information on reconstitution, rate of administration, and storage. IV Compatibility Chart foldout includes comprehensive compatibility information for 65 intravenous drugs. Fixed combinations are included in dosages of each combined drug directly within the individual monographs, to help students understand different drug dose options for specific diseases. Customizable and printable monographs for 100 of the most commonly used drugs are located on Evolve, along with quarterly drug updates. **Critical Heart Disease in Infants and Children E-Book** Ross M. Ungerleider 2018-09-26 Features comprehensive updates throughout the text, including indications, techniques, potential complications in perioperative management of patients, and surgical techniques for congenital heart disease. Covers recent advances in the treatment of pulmonary hypertension, developments in mechanical assist devices, heart and lung transplantation, and interventional cardiac catheterization. Features an all-new, full-color format that speeds navigation and helps clarify complex concepts. Contains 27 new chapters with an emphasis on the team approach to patient care in the ICU

including creating multidisciplinary teams, quality and performance improvement, training, and challenges and solutions to developing a cohesive team environment. Includes a detailed chapter on bedside ultrasound, walking you through the techniques you're most likely to encounter in the ICU. Employs well-documented tables, text boxes, and algorithms to make clinical information easy to access, and to provide a more complete understanding of echocardiography, imaging modalities, pulmonary hypertension, and more. Describes the basic pharmacology and clinical applications of new pharmacologic agents. Examines issues affecting adults with congenital heart disease.

**Stoelting's Anesthesia and Co-Existing Disease E-Book** Katherine Marschall 2017-02-17 A classic since its first publication nearly 25 years ago, *Stoelting's Anesthesia and Co-Existing Disease*, 7th Edition, by Drs. Roberta L. Hines and Katherine E. Marschall, remains your go-to reference for concise, thorough coverage of pathophysiology of the most common diseases and their medical management relevant to anesthesia. To provide the guidance you need to successfully manage or avoid complications stemming from pre-existing conditions there are detailed discussions of each disease, the latest practice guidelines, easy-to-follow treatment algorithms, and more. Presents detailed discussions of common diseases, as well as highlights of more rare diseases and their unique features that could be of importance in the perioperative period. Examines specific anesthesia considerations for special patient populations—including pediatric, obstetric and elderly patients. Features abundant figures, tables, diagrams, and photos to provide fast access to the most pertinent aspects of every condition and to clarify critical points about management of these medical illnesses. Ideal for anesthesiologists in practice and for anesthesia residents in training and preparing for boards. Includes brand new chapters on sleep-disordered breathing, critical care medicine and diseases of aging as well as major updates of nearly all other chapters. Covers respiratory disease in greater detail with newly separated chapters on Sleep Disordered Breathing; Obstructive Lung Disease; Restrictive Lung Disease; and Respiratory Failure. Provides the latest practice guidelines, now integrated into each

chapter for quick reference.

**Clinical Veterinary Advisor - E-Book** Joerg Mayer 2012-11-13 Providing accurate, at-a-glance information on managing the diseases of birds and exotic pets, *Clinical Veterinary Advisor: Birds and Exotic Pets* is the only comprehensive resource on the market covering birds, reptiles, small mammals, and other non-traditional pets. Concise summaries of hundreds of common medical problems help you consider differential diagnoses, recommend diagnostic tests, interpret results mindful of unique species differences, utilize important concepts of species-specific husbandry and nutrition, prescribe treatments, and provide follow-up care. With contributions from recognized avian and exotics experts and edited by Jörg Mayer and Thomas M. Donnelly, this clinical reference provides all the information you need in one book! Six-books-in-one format includes six separate sections: Diseases and Disorders, Procedures and Techniques, Differential Diagnosis, Laboratory Tests, Clinical Algorithms, and Zoonoses. In-depth, cutting-edge coverage includes all exotic species — birds, reptiles, pocket pets, amphibians, and fish — in one comprehensive resource. Concise summaries feature a definition of each problem, epidemiology, physical findings and clinical presentation, etiology, differential diagnosis, diagnostic workup (such as laboratory tests and imaging studies), treatment, prognosis and patient follow-up, zoonotic potential, and references. Diagnostic and treatment algorithms provide easy-to-follow, step-by-step guidance to clinical assessment and treatment planning. A companion website includes the complete text from the book, making the entire contents fully searchable, along with 250 full-color illustrations, client handouts, and the ability to print out any pages.

**Diagnosis and Management of Lameness in the Horse - E-Book** Michael W. Ross 2010-11-11 Covering many different diagnostic tools, this essential resource explores both traditional treatments and alternative therapies for conditions that can cause gait abnormalities in horses. Broader in scope than any other book of its kind, this edition describes equine sporting activities and specific lameness conditions in major sport horse types, and includes up-to-date information on all

imaging modalities. This title includes additional digital media when purchased in print format. For this digital book edition, media content may not be included. Cutting-edge information on diagnostic application for computed tomography and magnetic resonance imaging includes the most comprehensive section available on MRI in the live horse. Coverage of traditional treatment modalities also includes many aspects of alternative therapy, with a practical and realistic perspective on prognosis. An examination of the various types of horses used in sports describes the lameness conditions to which each horse type is particularly prone, as well as differences in prognosis. Guidelines on how to proceed when a diagnosis cannot easily be reached help you manage conditions when faced with the limitations of current diagnostic capabilities. Clinical examination and diagnostic analgesia are given a special emphasis. Practical, hands-on information covers a wide range of horse types from around the world. A global perspective is provided by a team of international authors, editors, and contributors. A full-color insert shows thermography images. Updated chapters include the most current information on topics such as MRI, foot pain, stem cell therapy, and shock wave treatment. Two new chapters include The Biomechanics of the Equine Limb and its Effect on Lameness and Clinical Use of Stem Cells, Marrow Components, and Other Growth Factors. The chapter on the hock has been expanded substantially, and the section on lameness associated with the foot has been completely rewritten to include state-of-the-art information based on what has been learned from MRI. Many new figures appear throughout the book.

*Essential Calculations for Veterinary Nurses and Technicians - E-Book*  
Terry Lake 2016-07-21 Learn to easily master the types of veterinary nursing calculations you will face on the job with *Essential Calculations for Veterinary Nurses and Technicians*, 3rd Edition. From basic arithmetic to dilutions and statistics, this useful text covers all aspects of calculations as applied to veterinary nursing. Readers will benefit from the text's common sense approach to clinical situations, and complete the book knowing how to use calculations to determine dosage rates, anesthetic flow rates, radiography exposure rates, parenteral nutrition,

and more. User-friendly features include simple language, detailed explanations, ample examples, and special author guidance so that content is easy to follow and understand. Plus, the text's abundance of learning features — such as self-assessment questions, clinical hints, and tips — help clarify important concepts and ensure that you have mastered everything you need to make calculations in the day-to-day clinical environment. Self-test sections with clinical hints and tips ensure retention of core concepts. Mathematical explanations using veterinary terms presents all principles in a manner that directly pertains to the veterinary field. Comprehensive content covers everything from basic arithmetic to dilutions and statistics so users have everything needed to succeed in calculations for veterinary nursing and technology. Dimensional analysis bridge method removes the necessity of memorizing formulae and takes advantage of simplifying equations so that calculators are often unnecessary. NEW! Reviewed and updated drugs throughout the book provide dosage calculations that coincide with drugs currently used in the field for the most clinical relevance. NEW! Additional math problems housed on the Evolve companion website offer substantial additional practice.

**Veterinary Ophthalmic Surgery** Kirk N. Gelatt 2011-08-13 Purchasers of *Veterinary Ophthalmic Surgery* have at their disposal a comprehensive, step-by-step guide to all types of ophthalmic surgical techniques across all species. Techniques are covered topographically, and species-by-species, with difficulty gradings for each one. Many of these procedures will be undertaken by the veterinary generalist, not only the specialized ophthalmologist. Nearly 1,000 large-sized illustrations, 750 of them in full colour, allow the practitioner to follow the techniques step-by-step. Internationally recognized as an authority on small animal ophthalmic surgery, Dr Gelatt is joined by expert contributors who together provide authoritative and definitive solutions to practitioners' eye surgery requirements. Whatever your field of specialism, this is the only eye surgery book you are ever likely to need. For: residents in veterinary ophthalmology; general, small animal, and equine veterinary practitioners; veterinary ophthalmologists; veterinary

medicine students. -Comprehensive coverage of all species -Lavishly illustrated sequenced figures of all procedures -Step-by-step approach for maximum clarity -A superb collection of online video clips gives clarification of the most common procedures -The only ophthalmic surgery text for veterinarians

**Emergency Medicine MCQs** Waruna De Alwis 2012-10-09 An invaluable self-assessment tool for emergency medicine trainees in Australasia. Emergency Medicine MCQs is an essential resource for Australasia's emergency medicine trainees. A practical self-assessment tool, the book assists trainees as they expand and refine their knowledge of emergency medicine, and will ultimately help them pass the Australasian Emergency Medicine Fellowship examination (FACEM). The multiple-choice questions in Emergency Medicine MCQs cover both the core and non-core areas in the Australasian Emergency Medicine Fellowship. Using this text, trainees can revise alone or with their peers to identify the areas in which they need further development. The curriculum is divided into three main areas where trainees require expert level of knowledge, high level of knowledge and general level of knowledge. It covers important clinical problems encountered in everyday emergency medicine practice - from cardiovascular emergencies through to obstetric and gynaecology emergencies, disaster management and toxicology. As well as being ideal for emergency medicine trainees qualifying through AECM, the book is a useful resource for GPs taking the GEM qualification through ACEM and JMOs 'on call'. Plus, this emergency medicine text is accompanied by an app - a separate product containing 180 randomised multiple-choice questions on all the topics within the book.

**Buck's 2022 ICD-10-PCS** Elsevier 2021-08-16 Choose the book designed by coders for coders! Buck's 2022 ICD-10-PCS includes all the ICD-10-PCS codes you need to know to ensure the most accurate billing and reimbursement for inpatient medical procedure coding. As coders need extensive knowledge to code with ICD-10-PCS - and to choose from the thousands of possible codes - this edition provides colorful anatomy plates (including Netter's Anatomy illustrations) and tables organized to

simplify the process of choosing and building procedure codes. It comes with durable spiral binding and includes a companion website with the latest coding updates. ICD-10-PCS Official Guidelines for Coding and Reporting (OGCR) provide easier reference to coding rules when they are needed most. Convenient Guide to the 2022 Updates in the front of the book lists all new, revised, and deleted codes, providing at-a-glance lookup of the coding changes. Unique! Full-color anatomy plates (including Netter's Anatomy art) are included in the front of the book to help you understand complex anatomic information and how it may affect choosing codes. American Hospital Association's Coding Clinic® citations include official ICD-10-PCS coding advice relating to specific codes and their usage. Hospital Acquired Condition (HAC) symbol notes procedures related to HACs as outlined in the MS-DRG. Symbols for Non-Covered and Limited-Coverage Procedures indicate related material outlined in the Definitions of Medicare Code Edits. Sex edits from the Definition of Medicare Code Edits denote codes that are used only with patients of a specific sex. Non-Operating Room Procedure symbols identify procedures that do and do not affect MS-DRG assignment. Combinations symbol identifies procedures that can affect MS-DRG assignment. Online Appendix: Procedure Combination Table displays each procedure cluster and the corresponding DRG, as well as a few procedure combinations that are designated as non-OR. NEW! Updated 2022 Official Code set reflects the latest ICD-10 codes needed for procedural coding.

**Essentials of Plastic Surgery** Alex P. Jones 2015-08-21 Essentials of Plastic Surgery: Q&A Companion is the companion to Essentials of Plastic Surgery, Second Edition, which covers a wide variety of topics in aesthetic and reconstructive plastic surgery. As such, it is designed to test your knowledge of the source book, which may be helpful in the clinical setting and beyond. It presents both multiple choice questions and extended matching questions in single best answer format. The 1200 questions are carefully constructed to be practical and thorough, and are accompanied by detailed answers that help enhance understanding of both the right and wrong answers. Compact enough to fit in a lab coat

pocket, its design and organization allow for quick and easy reading. The print book is accompanied by a complimentary eBook that can be accessed on smartphones and tablets. It is the go-to resource for all students of plastic surgery, whether residents in training or experienced practitioners.

**Respiratory Care Anatomy and Physiology, Foundations for Clinical Practice, 3** Will Beachey 2013 This edition includes in-depth coverage of the physiology of the heart, lungs and kidneys, offering coverage of the kidneys because of the renal system's role in maintaining acid-base balance and fluid volume, and because renal failure affects the health of the cardiopulmonary system.

*Admission Assessment Exam Review E-Book* HESI 2020-01-24 Passing the HESI Admission Assessment Exam is the first step on the journey to becoming a successful healthcare professional. Be prepared to pass the exam with the most up-to-date HESI Admission Assessment Exam Review, 5th Edition! From the testing experts at HESI, this user-friendly guide walks you through the topics and question types found on admission exams, including: math, reading comprehension, vocabulary, grammar, biology, chemistry, anatomy and physiology, and physics. The guide includes hundreds of sample questions as well as step-by-step explanations, illustrations, and comprehensive practice exams to help you review various subject areas and improve test-taking skills. Plus, the pre-test and post-test help identify your specific weak areas so study time can be focused where it's needed most. HESI Hints boxes offer valuable test-taking tips, as well as rationales, suggestions, examples, and reminders for specific topics. Step-by-step explanations and sample problems in the math section show you how to work through each and know how to answer. Sample questions in all sections prepare you for the questions you will find on the A2 Exam. A 25-question pre-test at the beginning of the text helps assess your areas of strength and weakness before using the text. A 50-question comprehensive post-test at the back of the text includes rationales for correct and incorrect answers. Easy-to-read format with consistent section features (introduction, key terms, chapter outline, and a bulleted summary) help you organize your review

time and understand the information. NEW! Updated, thoroughly reviewed content helps you prepare to pass the HESI Admission Assessment Exam. NEW! Comprehensive practice exams with over 200 questions on the Evolve companion site help you become familiar with the types of test questions.

*Psychology for health professionals* Patricia Barkway 2013-06-18 This fully updated second edition is written specifically for health science and nursing students in Australia and New Zealand. Authored by the highly regarded Patricia Barkway, with a diverse range of expert contributors, this Elsevier e-book interprets psychology for nurses, as well as for students of paramedicine, occupational therapy, physiotherapy, public health, pharmacy, psychology, social work and midwifery. Psychology for Health Professionals 2e e-book examines essential psychological theories, placing them within a social context. Acknowledging increasing awareness that behaviour is influenced as much by external factors as biological and psychological ones, the book's first half outlines psychological, lifespan and social theories, then applies them to contemporary health issues in later chapters. A key focus of this leading psychology e-book is examining individual personality and psychological theory within the social context of people's lives. New content includes current, evidence-based research, references and clinical examples relevant to interdisciplinary, contemporary healthcare practice. Issues of cultural safety and awareness have been strengthened throughout; there is a new section on chronic illness and a focus on recovery. This introductory psychology e-book does not assume its readers will have prior 'psychology' knowledge, yet it can easily be used well beyond first-year university. Critical thinking questions Classroom activities Research focus boxes providing examples of current research and evidence-based practice Interdisciplinary case studies throughout Further resources and web links to provide further reading and research and up-to-date information, data and statistics

**Veterinary Surgery: Small Animal Expert Consult - E-BOOK** Spencer A. Johnston 2017-06-14 Focus on the "how" and "why" of medical/surgical conditions — the critical issues that lead to successful

outcomes for your patients — with *Veterinary Surgery: Small Animal, Second Edition*. This two-volume full-color resource offers an authoritative, comprehensive review of disease processes, a thorough evaluation of basic clinical science information, and in-depth discussion of advanced surgeries. With an updated Expert Consult website you can access anytime and detailed coverage of surgical procedures, it is the definitive reference for surgical specialists, practicing veterinarians, and residents. Expert Consult website offers access to the entire text online, plus references linked to original abstracts on PubMed. Comprehensive coverage includes surgical biology, surgical methods and perioperative care, neurosurgery, and orthopedics in Volume One, and all soft tissue surgery organized by body system in Volume Two. Extensive references to published studies available on Expert Consult show the factual basis for the material. Strong blend of clinical and basic science information facilitates a clear understanding of clinical issues surrounding operative situations. Highly recognized contributing authors create chapters from their own experience and knowledge base, providing the most authoritative, current information available. Coverage of anatomy, physiology, and pathophysiology in chapters on specific organs includes information critical to operative procedures and patient management. In-depth chapters on anesthesia, surgical oncology, tumors of the spine, and musculoskeletal neoplasia provide valuable resources for practicing surgeons, especially in the area of cancer treatment. Preoperative considerations and surgical implications for surgical procedures help surgeons make decisions about treatment approaches. NEW and UPDATED! Expert Consult website with print text plus complete online access to the book's contents, so you can use it anytime — anywhere. EXPANDED! Coverage of interventional radiology techniques in Volume Two (soft tissue volume) to provide cutting-edge information on contemporary imaging modalities that gain access to different structures of the patient's body for diagnostic and therapeutic reasons. NEW and UPDATED! Expanded coverage of coaptation devices and small animal prosthetics clearly explains how they are used in a variety of clinical situations. EXPANDED! Principles of minimally invasive plate treatment

added to Volume One (orthopedic volume) to show how these advancements maximize healing and protect the patient while meeting the surgeon's goals in using fracture fixation.

**Sheehy's Emergency Nursing** Emergency Nurses Association 2019-08-15 Written by emergency nurses for emergency nurses, *Sheehy's Emergency Nursing: Principles and Practice, 7th Edition* covers the issues and procedures unique to the emergency department. This comprehensive, evidence-based resource is written by the Emergency Nurses Association and includes developments and changes in clinical practice that are incorporated throughout the text. Considered the go-to guide for issues and procedures unique to the emergency department, the user-friendly format features more than 150 high-quality illustrations and tables that highlight essential concepts and offer quick access to vital information. New to this edition is updated key coverage including clinical fundamentals, treatment for trauma and medical-surgical emergencies, the foundations of emergency nursing practice, special populations, and more! Written by the Emergency Nurses Association, ensuring this is the most accurate information on the market. Most comprehensive and authoritative text available on emergency nursing. Logically organized, chapters are grouped into six sections for quick access to important content: Foundations of Emergency Nursing, Professional Practice, Clinical Foundations of Emergency Nursing, Major Trauma Emergencies, Medical and Surgical Emergencies, and Special Patient Populations. Tables and boxes highlight and summarize critical and essential information, while 150 illustrations help you to quickly identify and treat frequently encountered conditions. A separate unit on special patient populations covers topics such as child abuse, elder abuse, intimate partner violence, sexual assault, substance abuse and behavioral/pediatric/obstetrical emergencies. NEW! Coverage includes the latest on topical issues such as ethics, workplace violence, and geriatric trauma. UPDATED pain guidelines feature the latest pain indicators. UPDATED sepsis guidelines provide essential information on pathophysiology and diagnosis, with valuable guidelines for managing these patients. NEW! Fully revised information on communicable

diseases. UPDATED Information on non-narcotic use for treatment of pain and increasing rates of addiction. NEW! Discussion of transgender patients covers how to work with this unique population. NEW! Full color photo insert

**Sims' Symptoms in the Mind** Femi Oyebode 2008-04-25 SIMS' SYMPTOMS IN THE MIND has, since its first publication in 1988, become established as the leading introductory textbook on clinical psychopathology. This new edition has been fully updated to include advances in neuropsychology and cognitive neuroscience and changes can be found in the chapters on memory disturbance, disorders of time, pathology of perception, disorders of speech and language, affect and emotional disorders, and disorders of volition and execution. In some cases, novel classifications of the abnormalities under consideration have been provided together with additional pathological phenomena - including palinopsia, akinetopsia, zeitraffer phenomenon, exosomesthesia - many of which have been rediscovered or imported from neurology. The popular and distinctive features are the use of figures, tables and illustrative case examples which have been further enhanced with additional case examples from the classical literature, autobiographical narratives and fiction. New section headings provide firmer thematic unity to the content Check boxes summarize important points such as classification of particular areas Additional examples of psychopathology are included which are drawn from a wide source including fiction, autobiography and clinical textbooks Includes an extended range of abnormalities, including those which have previously been neglected, such as alloaesthesia, palinaptia, teleopsia, pelopsia, akinetopsia, palinopsia, and paraposopia Fully updated description of the theoretical aspects of memory and its disturbance Fully integrated neuropsychological concepts of imagery and internal mental representations in the chapter on abnormalities of perception

**Certification Review for PeriAnesthesia Nursing - E-Book** ASPAN 2017-03-09 Prepare for your CPAN® or CAPA® exam with the only question-based review of perianesthesia nursing! Certification Review for Perianesthesia Nursing, 4th Edition is written by the American Society of

PeriAnesthesia Nurses (ASPAN) — the leading organization for perianesthesia nursing education, research, and practice standards. A total of more than 650 multiple-choice review questions includes case study and clinical application questions, answers, detailed rationales, references to current literature, and an interactive online Review Tool that includes 175 additional questions to use for practice! Edited by Theresa Clifford and Denise O'Brien, this ASPAN review is the most effective way to prepare for your certification exam in hospital postanesthesia or ambulatory perianesthesia nursing. Exam-based organization of questions mirrors that of the CPAN and CAPA exams, covering the four core subject areas: physiological, cognitive/behavioral, safety, and patient advocacy. Case study and clinical application questions reflect the style of the questions on the actual certification exams, allowing you to prepare for these types of questions and practice clinical reasoning. Detailed rationales for each question help you understand why certain answer options are better than others. References for each question show where to find and verify the latest standards of practice. Essential perianesthesia nursing concepts are identified and tied to the corresponding chapter in the Core Curriculum. NEW! More than 650 brand-new review questions include answers and rationales, and reflect current evidence and standards of practice, so you can prepare effectively for the newest exam and deliver the best possible nursing care for patients who undergo sedation, analgesia, and anesthesia. NEW! An additional 175 review questions in the online Review Tool offer practice with timed test taking. UPDATED review content is organized to match the content of ASPAN's PeriAnesthesia Nursing Core Curriculum and incorporates the test blueprints of ABPANC (the American Board of Perianesthesia Nursing Certification). *Mosby's Dental Assisting Exam Review - E-Book* Mosby 2017-02-04 Prepare for and pass your local, state, or board exams with Mosby's Dental Assisting Exam Review, 3rd Edition. This best-selling comprehensive resource is modeled after the format of the Certified Dental Assistant (CDA®) exam administered by the Dental Assisting National Board (DANB) and includes 600 all-new questions. With a total

of 2,800 total multiple-choice questions and nearly seven times the practice of the CDA® exam, all the standard topics and procedures specific to dental assisting are meticulously covered. In addition, an updated companion website includes a database of exam questions and a custom test generator with time-clock functionality. Plus, this is the only product on the market to address state-by-state expanded functions with state-specific questions to give you realistic practice wherever you plan to practice. Comprehensive practice with 2,800 total multiple-choice questions provides nearly seven times the practice of the board exam. National board format follows the Certified Dental Assistant (CDA®) blueprints with the same number and type of questions you can expect to see in the General Chairside, Infection Control, and Radiation Health and Safety component exams. Answer key and rationales help you assess your understanding and gauge your exam readiness. Unique companion website allows you to practice specific types and numbers of questions or easily generate a simulated exam from the 2,800-question item bank to mimic the types and numbers of questions on the CDA® exam. Realistic computerized testing experience with a clock functionality helps you learn to master time for optimal test-day readiness. Photos and illustrations included with exam questions provide realistic exam simulation. NEW! Content review sections summarize key information to provide an even more comprehensive exam-preparation product. NEW! Approximately 600 all-new questions provides you more opportunities to master content and gain test-taking confidence. NEW! Expanded question rationales help you to break down and understand questions and strengthen your grasp of the material. UNIQUE! Additional expanded functions questions ensure that you are prepared for exam success in any state you choose to practice.

**Anesthesia and Analgesia for Veterinary Technicians - E-Book** John Thomas 2014-04-14 This guide to the principles of anesthesia administration in animals combines user-friendly coverage of essential information with an outstanding illustration program and improved readability. Anesthesia and Analgesia for Veterinary Technicians, 4th Edition prepares you to administer anesthesia with information on pre-

anesthetic preparation of the patient, induction procedures, monitoring animals' vital signs during the anesthetic period, and postoperative care. Expert authors John A. Thomas, DVM, and Phillip Lerche, BVSc PhD, Dipl ACVA, also include discussions of actions and side effects of anesthetic agents, the physiology of respiration, heart rate and blood pressure, emergency response, anesthetic equipment, and specialized techniques. . Comprehensive scope of coverage includes both large and small animals. A reading level and depth of information appropriate for the technical level. Easy-to-read, user-friendly format makes this a practical guide in the classroom or in practice. Objectives, key points, and review questions help reinforce learning. Focus on health and safety issues satisfies OSHA requirements. Step-by-step procedures boxes clarify the technician's role in anesthesia delivery. New organization and completely updated techniques, drugs, and equipment keep you up-to-date on the latest advances in the field. 49 new procedures boxes, 20 anesthetic protocol boxes, and 5 case studies help you apply knowledge to real-life situations. Two new large animal chapters cover pain management and anesthetic techniques for equine and ruminant patients. Illustrated, step-by-step procedures and the full-color format make this text inviting and user-friendly. All new figures and 4-color art make the material easy to understand and visually appealing. New material in every chapter incorporates the expanding role of veterinary technician anesthetists, especially in referral practices, teaching institutions, and research. Chapter outlines and Technician Tips emphasize key information and highlight key terms in the glossary. Student resources on the Evolve website include a video animation that demonstrates the use and maintenance of different anesthesia machines.

Smith and Aitkenhead's Textbook of Anaesthesia E-Book Alan R. Aitkenhead 2013-08-08 Textbook of Anaesthesia has become the book of choice for trainee anaesthetists beginning their career in the specialty. It is highly suitable for part 1 of the Fellowship of the Royal College of Anaesthetists and similar examinations. It is also a practical guide for all anaesthetists and other health care professionals involved in the perioperative period.

**Mosby's Dental Dictionary - E-Book** Elsevier 2007-10-12 Designed for use by the entire dental team, Mosby's Dental Dictionary includes more than 10,000 terms and 300 full-color illustrations. Definitions include all areas of dentistry, basic, clinical and behavioral sciences, terms related to office management, and commonly used medical terms. Thoroughly revised and updated, this edition includes more terms, more pronunciations, and extensive appendices for quick, easy-to-use access to information used daily in the clinical setting. Full-color illustrations enhance definitions. Accuracy of entries is verified by an expert review board including dentists and dental hygienists. Colored thumb bleeds make it easy to locate definitions quickly. Extensive appendices provide useful information in a quick-access format. 800 new terms have been added, especially in the fields of oral surgery, anatomy, and pathology. More implant and pathology photos are included to visually depict additional conditions and equipment. 20% more pronunciations have been added to the companion CD-ROM, for a total of 5,200 pronunciations. Updated appendices include CDT-2007/2008 — the coding system from the American Dental Association (ADA), chemical agents for surface disinfection, and the ADA's guidelines for prescribing dental radiographs. Implant prosthetics appendix has been added. New consultants include implantologist Charles Babbush, a pioneer in the field of dental implants and an internationally acclaimed surgeon, teacher, and lecturer.

**Veterinary Anaesthesia E-Book** Kathy W. Clarke 2013-06-28 This is a fully revised new edition of this essential text covering anaesthesia and analgesia in all large and small animal species. The new edition has greatly expanded sections on anaesthesia of exotic species such as small mammals, llamas, camels and many more, and also has a new section on anaesthesia of wild animals, both large and small, and birds. The book is divided into 3 sections; the first, Principles and Procedures covers pharmacology and pharmacokinetics, monitoring, sedation and premedication and much more. The second section comprises chapters on anaesthesia in all the main species and the third section covers anaesthesia in special cases, complications and crises ! Almost 200 prints

and line illustrations enhance the comprehensive text, and make the new edition of Veterinary Anaesthesia 10/e an essential purchase for all vets ! all large and small animal species covered in one book: includes new advances in anaesthesia in horses, birds, lab animals and wild animals glossary of USA and UK drug names: up-dated coverage of all new anaesthetic agents in Europe and the USA first section covers principles of drug action, pharmacokinetics and pharmacodynamics the only book to discuss anaesthesia of individual species in detail: lot of info on anaesthesia of goats, sheep and other herbivores such as camels and llamas also covers analgesia in all species chapter on special cases such as anaesthesia in obstetrics chapter on anaesthetic accidents and crises ! the new edition will be made more student-friendly by adding special boxes in the text which will be relevant for this group. Full revision and update of content

**Principles of Gynecologic Oncology Surgery E-Book** Pedro T Ramirez 2018-07-01 With an emphasis on a practical, "how-to" approach, this comprehensive text addresses the most important and commonly performed procedures in gynecologic oncology surgery today. Written by leaders in the field, Principles of Gynecologic Oncology Surgery clearly describes the critical steps for each procedure, provides up-to-date information on the recent literature, and includes high-quality illustrations of anatomy and technique. Covers hot topics such as Enhanced Recovery After Surgery (ERAS), sentinel lymph node mapping, and minimally invasive surgery (robotic surgery, advanced laparoscopic surgery, and single site surgery). Includes expert coverage of reconstructive surgery, colorectal surgery, urology, and vascular surgery, each written by surgeon leaders in that particular field. Addresses the diagnosis, management and prevention of surgical complications.

**Anesthesia E-Book** Ronald D. Miller 2009-06-24 From fundamental principles to advanced subspecialty procedures, Miller's Anesthesia covers the full scope of contemporary anesthesia practice. It is the go-to reference for masterful guidance on the technical, scientific, and clinical challenges you face. Now new chapters, new authors, meticulous

updates, an increased international presence, and a new full-color design ensure that the 7th edition continues the tradition of excellence that you depend on. Covers the full scope of contemporary anesthesia practice. Offers step-by-step instructions for patient management and an in-depth analysis of ancillary responsibilities and problems. Incorporates 'Key Points' boxes in every chapter that highlight important concepts. Extends the breadth of international coverage with contributions from prominent anesthesiologists from all over the world, including China, India, and Sweden. Features 30 new authors and 13 new chapters such as Sleep, Memory and Consciousness; Perioperative Cognitive Dysfunction; Ultrasound Guidance for Regional Anesthesia; Anesthesia for Correction of Cardiac Arrhythmias; Anesthesia for Bariatric Surgery; Prehospital Emergency and Trauma Care; Critical Care Protocols; Neurocritical Care; and Renal Replacement Therapy. Dedicates an entire section to pediatric anesthesia, to help you address the unique needs of pediatric patients. Presents a new full-color design -- complete with more than 1,500 full-color illustrations -- for enhanced visual guidance.

**Small Animal Toxicology - E-Book** Michael E. Peterson 2013-08-07 Diagnose and determine treatment for toxic exposures in small animals with this quick reference! Small Animal Toxicology, 3rd Edition covers hundreds of potentially toxic substances, providing the information you need to manage emergency treatment and prevent poisonings in companion animals. To help you identify an unknown poison, this guide provides a list of potential toxins based on clinical signs or symptoms. It also includes a NEW color insert with 85 full-color photographs of toxic plants and of lesions associated with various poisonings. Written by respected veterinarian Michael E. Peterson and board-certified veterinary toxicologist Patricia A. Talcott, along with a team of expert contributors, this edition covers a wide variety of topics including toxicodynamics, toxicokinetics, effective history taking, recognizing clinical signs of toxic exposures, managing emergencies, and supportive care of the poisoned patient. Comprehensive coverage of toxins/poisons includes the full range of substances from acetaminophen to zinc, including home products, prescription medicines, recreational drugs, and

more. Guidelines to evaluation, diagnosis and treatment include examinations of the source, toxic dose, toxicokinetics, clinical signs, minimum database, confirming tests, treatment progress and differential diagnosis for each specific toxicant. Coverage of common poisonous substances includes grapes and raisins, nicotine, mercury, mushrooms, Christmas-time plants, and snake and spider venoms. Toxicological Concepts section provides information on toxicologic principles such as history taking, providing supportive care, and managing emergency treatment. General Exposures section addresses nontraditional toxicology such as indoor environmental air, pesticides, pharmaceuticals, and toxicities in pregnant and lactating animals. Miscellaneous Toxicant Groups section covers commonly encountered specific toxicants, the proper use of diagnostic laboratories, use of human poison control centers, and antidotes for specific toxins. More than 50 international contributors provide up-to-date, authoritative advice on treating poisonings and intoxications. 8 NEW chapters cover topics including legal considerations in toxicology cases, responding to mass exposures, and poisonings in birds, small mammals, and geriatric patients. NEW color insert shows 85 of the most commonly encountered toxic substances for at-a-glance identification. UPDATED Signs and Symptoms index makes it easier to find information on a toxic agent by presenting signs rather than requiring the formulation of a diagnosis. UPDATED information on agents most likely to cause a toxic reaction includes natural flea products and an expanded section on human medications. NEW quick-access format with bold headings and convenient tables and boxes allows quick retrieval of information in emergency situations.

**Sedation** Stanley F. Malamed 2003 This definitive, authoritative clinical manual stands alone in the field of patient sedation. Combining essential theory with technical instruction, it presents "everything in a nutshell" for the practicing professional and student of dentistry. Key factors such as the physical, emotional, and mental condition of the patient - as well as required ADA guidelines - are incorporated into sedation techniques designed to improve the patient's overall dental experience. The result is an indispensable book, expert in its professional protocols and

techniques, and comprehensive in its wide-ranging considerations. Detailed chapters, divided into eight parts, are devoted to topics on: the problem of fear and anxiety in dentistry; pain and anxiety control; pharmacosedation; history and techniques of general anesthesia; inhalation and intravenous sedation, preparation and management of emergencies in the dental office; and sedation for special needs patients - pediatric, geriatric, and medical and physically compromised patients. Written by an acknowledged expert in the field, the book draws on a wealth of clinical experience and ability. Combines all aspects of sedation with essential theoretical and technical instruction. Techniques are divided into sections on pharmacology, armamentarium, and technique and complications - described in explicit detail that allows it to be used as a chairside reference. Pharmacosedation is covered in full, with discussions of oral, rectal, and IM premedication, as well as nine chapters on inhalation sedation and ten chapters on IV sedation. Covers all of the components required by the ADA guidelines: review of cardiovascular and respiratory physiology; selection of agents; techniques of administration; and management of complications and emergencies. Step-by-step descriptions of inhalation sedation (nitrous oxide and oxygen) and intravenous sedation provide a superb clinical "picture" of the procedures. Chapters on pediatric, geriatric and physically and medically compromised patients offer valuable, up-to-date information on the management of these special needs patients. In-depth discussions of the pharmacology of commonly used sedative agents allow the reader to fully understand properties and characteristics of drugs used. Content has been completely updated to include the most current drug dosage information. More information on recreational abuse of nitrous oxide reflects the current societal trends. The latest American Heart Association recommendations help prevent bacterial endocarditis. Increased emphasis on nitrous oxide/oxygen, as many dental hygienists are becoming certified to administer this form of sedation. New contributors lend credibility and experience to each topic discussed. Content outlines at the beginning of each chapter allow for quick reference of specific topics. Improved illustrations and photographs offer

a fresh look, with high-quality art to aid in the visualization of techniques and procedures. Spanish version of 3rd edition also available, ISBN: 84-8174-136-1

*Mosby's Comprehensive Review for Veterinary Technicians E-Book*  
Monica M. Tighe 2019-03-28 Master critical concepts to succeed on your certification exam! Mosby's Comprehensive Review for Veterinary Technicians, 5th Edition is the ideal review tool which reflects the most recent changes to the Veterinary Technician National Exam (VTNE). This edition features a user-friendly outline format that helps break down information visually for better comprehension of the material. Coverage reinforces key concepts in basic and clinical sciences, clinical applications, patient management and nutrition, anesthesia and pharmacology, medical and surgical nursing, and critical care, and information on pain management. Wide-ranging coverage includes dogs, cats, large animals, birds, reptiles, and laboratory animals. To ensure the most meaningful review, this new edition features a study mode on the Evolve site that includes 500 review questions and an exam mode with a computer-based testing environment similar to what you will encounter when taking the VTNE. The accompanying Evolve site includes an expanded Comprehensive Test with 500 review questions, and a test engine containing an additional 500 questions that can be used for practice or exam-mode simulation. Comprehensive Test at the end of the book simulates the VTNE testing environment, giving students the confidence and practice they need to master the exam. UPDATED! Chapter discussions expanded throughout text provide additional information in areas such as emergency procedures, as well as urinalysis and hematology, sanitation, sterilization, and disinfection, small and large animal nutrition and feeding, and exotic animal medicine. UPDATED! The digital section in the Radiography chapter has been expanded. Comprehensive coverage includes all areas of veterinary technology, such as: basic and clinical sciences; clinical applications; patient management, nursing and nutrition; anesthesia and pharmacology; and professional practices and issues. Coverage of multiple species, including dogs, cats, large animals, birds, reptiles, and

laboratory animals, prepares readers for all aspects of the national board examination. A user-friendly outline format ensures content can be quickly comprehended and is conducive to classification and grouping of material, which helps the reader retain the content. End-of-chapter review questions cover the content in each of the chapters equally, providing you with a solid review of the vet tech curriculum and of the information you will need to know to pass the VTNE. Full-color format features vivid color photos to support comprehension and recognition of essential concepts including histology, hematology, diagnostic microbiology and mycology, virology, urinalysis, and parasitology. Easy-to-read summaries support visual learners and serve as useful review and study tools. Detailed Appendices provide you with quick access to helpful resources for veterinary technicians. NEW! Content mapped to the VTNE domains, tasks, and knowledge statements prepares you for taking the VTNE. NEW! The use and care of endoscopic equipment added to the Ultrasound and Other Imaging Modalities chapter.

**Communication - eBook** Glyn O'Toole 2020-04-27 Written by Glyn O'Toole, *Communication: Core Interpersonal Skills for Healthcare Professionals 4e* is an essential guide to clear and effective communication in a multidisciplinary healthcare setting. Divided into four sections, the fourth edition challenges the reader to reflect upon their personal communication style and habits; introduces strategies and skills to enhance future practice, and encourages the development of confidence through activities, scenarios and case studies. This fully revised fourth edition will appeal to health science students and clinicians seeking to communicate more effectively in an increasingly complex healthcare environment. Increased focus on digital communication - includes overviews and tips on navigating professional and personal electronic media Individual and group activities throughout to encourage skill development, reflection and awareness of self and others An extensive suite of scenarios - practice and apply your communication skills using realistic situations and individuals that healthcare professionals encounter in clinical practice Chapter 5 The specific goals of communication for healthcare professionals: Effective

conclusions of interactions and services: Negotiating closure Chapter 20 Remote telecommunication or telehealth: The seen, but not-in-the-room healthcare professional Chapter 23 - Person/s experiencing neurogenic or psychological shock Chapter 25 - A Person/s fulfilling the role of a grandparent Chapter 26 - Person/s with a spinal injury Chapter 27 - A Person/s living in a residential aged care facility

**Handbook of Orthodontics** Martyn T. Cobourne 2015-10-02 The second edition of the popular Handbook of Orthodontics continues to offer readers a highly accessible introduction to the subject of clinical orthodontics. Comprehensive and compact, this book is ideal for dental undergraduates, postgraduate students of orthodontics and orthodontic therapists, as well as general dental practitioners with an interest in the field. Portable format makes the book ideal for use as an 'on-the-spot' quick reference Provides comprehensive coverage of clinical orthodontics ranging from diagnosis and treatment planning through contemporary removable and fixed appliances to cleft lip and palate Covers the scientific basis of orthodontics in detail with particular focus on embryology, craniofacial development, growth and the biology of tooth movement Presents over 500 illustrations and photographs - many previously unpublished - to help explain and illustrate specific points Chapters fully updated throughout to reflect the recent advances in evidenced-based practice and new areas of knowledge, particularly in digital imaging, appliance systems and craniofacial biology Ideal for all members of the orthodontic community, ranging from junior post-graduate trainees to experienced practitioners Also suitable for senior dental undergraduates considering a career in orthodontics A new chapter on evidence-based medicine explains how to assess clinical research correctly and appraise the literature Covers new appliance systems in orthodontics, including customized appliances and aligners Expanded selection of clinical cases for each class of malocclusion, including over 100 new figures New 'pull out' boxes summarize the best available clinical evidence, making quick reference and learning even easier Important references are highlighted and their impact explained in the bibliography

