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Discusses the area around the Pacific Ocean known as the Ring of Fire that is littered with volcanoes, and provides information on volcanoes, rifts, faults, and earthquakes.

In recent years, neurocritical care has grown and matured as a subspecialty of Critical Care Medicine with the advent of new monitoring, diagnostic, and therapeutic capabilities. The goal of neurocritical care is to rapidly deliver acute medical therapies and appropriate interventions through effective monitoring of both neurological and end organ function. Neurocritical Care provides 'at the bedside' guidance on the medical knowledge and technical skills required to care for critically ill patients with neurologic conditions such as cerebrovascular disorders, neurotrauma, neuro-oncology, refractory seizures, neuromuscular diseases, infections, alterations in consciousness, and perioperative neurosurgical care. Part of the Pittsburgh Critical Care Medicine series, this compact volume is an ideal reference for physicians and trainees working in either a general ICU or specialty Neuro ICU unit. Readers will gain an understanding of background knowledge and concrete solutions to questions and situations encountered in daily practice.

This volume explores the link between basic science

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and clinical insights in the field of schizophrenia research.

Covers Concepts, Principles & Techniques Used to Analyze Solid State Pulse & Digital Circuits

Prepare for success on the Examination of Special Competence in Critical Care Echocardiography (CCEeXAM)! Critical Care Echocardiography Review is a first-of-its-kind, review textbook containing over 1,200 questions and answers. Helmed by Drs.

Marvin G. Chang, Abraham Sonny, David Dudzinski, Christopher R. Tainter, Ryan J. Horvath, Sheri M. Berg, Edward A. Bittner as well as a team of associated editors and authors from institutions across the nation , this highly visual resource covers every aspect of the use of ultrasound for clinical diagnosis and management in the critical care setting, providing a thorough, effective review and helping you identify areas of mastery and those needing further study.

Ideal for both neurosurgical residents and recertifying neurosurgeons, Neurosurgery Self-Assessment: Questions and Answers offers the most comprehensive, up to date coverage available. Over 1,000 clinically relevant multiple-choice questions across 46 topic areas test the candidate's knowledge of basic neuroscience and neurosurgical subspecialties to an unparalleled degree and provide detailed answer explanations to facilitate learning and assessment. Over 700 histology, pathology,

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radiology, clinical and anatomical images serve as an index of routinely tested-on images in neurosurgical examinations with high-yield summaries of each pathology to reinforce and simplify key concepts. Includes only multiple choice questions in both single-best-answer and extended matching item (10-20 options) format increasingly adopted by neurosurgery certification boards worldwide. Questions are organized by topic and classified by degree of difficulty through a highly visual "traffic light system" which codes each question in green, amber, or red. Includes coverage of the landmark studies in areas such as vascular, stroke, spine and neurooncology. Practical tips facilitate study with test-taking strategies and things to consider before sitting for an exam. Utilizes Imperial and SI units throughout.

This witty reference steps in where time-honored discussions of the birds-and-the-bees typically fall short. Each of the 90-some entries are formally defined and further explained through reflective and ribald definitions, essays, and stories by some of today's most exciting writers. Everything from celibacy to swinging, hand jobs to spooning are tackled by everyone's favorite writers including Daphne Merkin, Charles Kaiser, Erica Jong, Thomas Beller, and Jane Smiley. Learn what Philip Lopate has to say about duration and Pagan Kennedy about the phallus. Ravi Shankar lingers on the quickie

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while Patty Marx waxes poetic about the vibrator. From sexual relationships (monogamy, one-night stand, ménage a trios) to sexual positions (doggie style, 69), from age-old practices (prostitution) to contemporary twists (internet sex), this alphabetical encyclopedia includes everything you need to know about the language of love and more. A perfect gift designed to supplement any good sex education, *Dirty Words* will find a warm spot on bookshelves and bed-side tables everywhere.

This book explains how British army bands in the interwar years were a primary stakeholder in the music industry. Approximately 7,000 full-time bandsmen served in the British Army setting the standard for training and performance in the music industry.

The second edition of this well-received text continues to provide a coherent and comprehensive coverage of *Pulse and Digital Circuits*, suitable as a textbook for use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design concepts. It includes a number of classroom-tested problems to encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students

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the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students. NEW TO THIS EDITION : • Includes two new chapters—Logic Gates and Logic Families—to meet the curriculum requirements. • Provides short questions with answers at the end of each chapter. • Presents several new illustrations, examples and exercises

Commercial companies and non-governmental organisations (NGOs) are internationalising at an increasing pace. Yet little is known about the management of NGOs during this process. Indeed, they have been neglected by comparison to the literature on companies. This thesis draws on theories of how and why companies internationalise to determine whether the explanations they offer can be extended to cover NGOs. It considers the driving forces experienced by NGOs, the stages they pass through. This was undertaken through a postal survey using results from 52 international NGOs from Europe and the US. The findings were later considered in relation to four case studies of NGOs; two relatively small NGOs, which have internationalised slowly, and two larger and faster NGOs, to give practical examples and a wider insight into internationalisation. The results indicate that for driving force theories to be applicable to NGOs they need to take into account NGOs strong internal motivation to meet "needs", the varying influence of drivers on different NGOs and the separate roles drivers play for NGOs. For stage theories the results suggest that there are similarities and differences with companies, and that Federations may follow a parallel route to other NGOs. The results also suggest that NGO managers should pay critical attention to the range of driving forces, both internal and external, that apply to their organisation. Managers should also be prepared for problems with their overseas branches before they reach the stage of being "truly global"; NGOs, however, may be better suited to

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that stage than many companies.

AAOS Comprehensive Orthopaedic Review, 3rd edition offers sweeping coverage of the core of orthopaedic knowledge that spans the spectrum of the orthopaedic specialties. This convenient, comprehensive and user-friendly text combines the specific information you need to prepare for your examination.

This Volume of the series Cardiac and Vascular Biology offers a comprehensive and exciting, state-of-the-art work on the current options and potentials of cardiac regeneration and repair. Several techniques and approaches have been developed for heart failure repair: direct injection of cells, programming of scar tissue into functional myocardium, and tissue-engineered heart muscle support. The book introduces the rationale for these different approaches in cell-based heart regeneration and discusses the most important considerations for clinical translation. Expert authors discuss when, why, and how heart muscle can be salvaged. The book represents a valuable resource for stem cell researchers, cardiologists, bioengineers, and biomedical scientists studying cardiac function and regeneration.

The Mosaic approach views children as 'experts in their own lives', and offers a creative framework for listening to young children's perspectives. At a time of shifting policy in early years, this second edition offers a timely reminder that listening to young children is still important for reviewing service provision. The Mosaic approach has been applied by practitioners throughout the world. This new edition reflects on the authors' original ground-breaking work, with new introductions, updates and examples of how the Mosaic approach has been adapted, and offers case studies that will encourage practitioners to use the framework in their own setting. will be of interest to policy makers, practitioners in nurseries, children's centres, pre-schools and schools and

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residential settings. It will also be welcomed by early childhood students and other researchers who are engaged in searching for new theoretical, practical and imaginative ways of listening to young children.

EXPERIMENTS IN BIOCHEMISTRY: A HANDS-ON APPROACH, Second Edition features a variety of hands-on, classroom tested experiments that are proven to work and can be completed in a normal lab period. The manual's stand-alone experiments are effective in courses meeting only once a week, giving students a broad overview of the subject matter. A more comprehensive set of experiments is also available and allows students to delve further into each of the topics presented. The Second Edition also features new and revised experiments, including a new experiment that involves cloning the barracuda LDH gene! Students and professors will also find expanded problem sets in this edition. Tip boxes, located throughout the text, provide pointers to students on how to perform the experiment at hand, while Essential Information boxes highlight pertinent information that will help the student complete the experiment. The second edition continues to include references and further readings at the end of each chapter. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The rapid development of digital technologies has opened up new possibilities for how Physical Education is taught. This book offers a comprehensive, practice-oriented and critical exploration of the actual and potential applications of digital technologies in PE. It considers the opportunities that are offered by new technologies and how they may be best implemented to enhance the learning process. Including contributions from the US, UK, Europe, Canada and New Zealand, this international collection reflects on how digital innovations are shaping PE pedagogy in theory and practice

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across the globe. Its chapters identify core pedagogical principles – rather than simply discussing passing digital fads – and offer practical narratives, case studies and reflections on how PE practitioners can introduce technology into teaching and learning through the use of social media, video gaming, virtual reality simulation, iPads and Wiki platforms.

Digital Technology in Physical Education: Global Perspectives is a valuable resource for students, researchers and practitioners of PE looking to integrate digital technology into their work in a way that does justice to the complexity of teaching and learning.

Through a critical analysis of theory, policy and practice, *The Public and Private Management of Grief* looks at how 'recovery' is the prevailing discourse that measures and frames how people grieve, and considers what happens when people 'fail' to recover. Pearce draws on in-depth interviews with bereaved people and a range of bereavement professionals, to contemplate how 'failures' to recover are socially perceived and acted upon. Grounded in Foucauldian theory, this book problematises the notion of recovery, and instead argues for the acknowledgment of the experience of 'non-recovery,' highlighting how recovery is a socially and historically constructed notion linked to the individualised vision of health and happiness promoted by neo-liberal governmentality. This book will be of interest to students and scholars across sociology, anthropology, social work and psychology with a focus on death, dying and bereavement, grief studies, health and social care, as well as counsellors, clinical psychologists and social workers.

This book provides a comprehensive yet concise review of geriatric psychiatry in preparation for the board exam, or for reference during practice. Written by experts in the field, this text thoroughly reviews

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over 500 developmental, biological, diagnostic, and treatment questions for board certification. Unlike any other text on the market, this book takes a broader approach to the subject, making it accessible for physicians as well as other clinicians, including nurses, therapists, and social workers. *Absolute Geriatric Psychiatry Review* is an excellent resource for all clinicians who will care for the mental health of aging patients, including psychiatrists, neurologists, psychologists, therapists, nurses, social workers, nursing home administrators, and all others.

The QRI-5 has long led the field in offering students and teachers alike a reliable and easy-to-use informal assessment instrument. This Fifth Edition continues to emphasize authentic assessment of children's reading abilities, from the most emergent readers to advanced readers. One of the keys to the success of the QRI-5 is that it contains narrative and expository passages at each pre-primer through high school level. All are self-contained selections highly representative of the structure and topic of materials found in basal readers and content-area textbooks. This new edition includes new narrative texts that are even easier than the pre-primer passages previously included. At the same time, it provides graded word lists and numerous passages designed to assess the oral reading, silent reading, or listening comprehension of a student as well as questions to

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assess prior knowledge. Instructors can measure comprehension by retelling passages, using implicit and explicit questions, and using other devices.

What's New in the QRI-5? # Narrative texts even easier than the pre-primer passages previously included, as well as another narrative to all primary grade levels. # Passages at pre-primer through second grade levels that are presented with and without pictures. # Map and illustrations as part of expository selections at fourth through high school levels. # Accompanying DVD content has been expanded to include * Examples of students reading orally * Scored protocols to accompany readings * Directions for administering each segment of the QRI * Tables/Charts that increase consistency of administration, scoring, and interpretation * All student and examiner copies

Citizen Inquiry: Synthesising Science and Inquiry Learning is the first book of its kind to bring together the concepts of citizen science and inquiry-based learning to illustrate the pedagogical advantages of this approach. It shifts the emphasis of scientific investigations from scientists to the general public, by educating learners of all ages to determine their own research agenda and devise their own investigations underpinned by a model of scientific inquiry. 'Citizen inquiry' is an original approach to research education that refers to mass participation of the public in joining inquiry-led scientific

investigations. Using a range of practical case studies underpinned by the theory of inquiry-based learning, this book has significant implications for teaching and learning through exploration of how new technologies can be used to engage with scientific research. Key features include: a new perspective on science education and science practice through crowd-sourced research explanation of the benefits of this innovative approach to teaching and learning a steady shift of emphasis from theory to application for readers to understand thoroughly the current state of research in the field and its applications to practice examples of practical applications of this approach and recommendations on how successful citizen inquiry applications can be developed. This edited volume is essential reading for academic researchers and professional educators interested in the potential of online technology in all levels of education, from primary and secondary level through to further education and lifelong learning. It will be ideal reading on any undergraduate or postgraduate course involving research methods in education as well as developments in science education and educational software.

Chapter 1. Introduction: Creativity and learning as sociocultural and intertwined phenomena -- Chapter 2. Uncertainty: A Necessary Condition for Creative Learning -- Chapter 3. Time to Think: Lessons about

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Purpose and Agency from Case Studies -- Chapter 4. Developing Intelligence and Creativity in Education: Insights from the Space-Time Continuum -- Chapter 5. Cultivating Creativity in Computing Education: A Missed Opportunity? -- Chapter 6. . Multiple creativities put to work for creative ecologies in teacher professional learning: A vision and practice of everyday creativity -- Chapter 7. Distributed Creativity and Expansive Learning in a Teacher Training Schools Change Laboratory -- Chapter 8. Virtual enterprise simulation game as an environment for collaborative creativity and learning -- Chapter 9. Mind the gap: Creative knowledge processes within interdisciplinary groups in organizations and higher education -- Chapter 10. Remaking and transforming cultural practices: Exploring the co-occurrence of work, learning and innovation -- Chapter 11. Supporting Creativity and Learning at Work: Practices and Structures from Growth Companies..

Improve your diagnostic skills with this unique case-based guide! With more than 99 fully illustrated cases, this new book provides a practical, up-to-date review of differential diagnosis and treatment in ophthalmology. Designed to improve your problem-solving skills, each case leads you from history and differential diagnosis to medical management, rehabilitation, and follow-up.

With contributors from Massachusetts General

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Hospital and Harvard Medical School, the unique and thorough *Anesthesia Review: 1000 Questions and Answers to Blast the BASICS and Ace the ADVANCED* covers both BASIC or ADVANCED levels of Anesthesiology training in a single volume. Any resident in Anesthesiology will find a gold mine of material—including topic-specific chapters with exam-like questions, answers with explanations, and references for further, in-depth review—for fast, efficient preparation.

This second fully-illustrated edition, in three volumes, is complete with 144 chapters organised in eleven sections and colour-coded by orthopaedic specialty. The bulleted outline format makes it easy to read and enables quick review of important facts. Paired with the *Study Questions* (volume 3), students will have the solution for exam success at their fingertips. They will be able to pinpoint areas for further study by self-testing with over 400 companion study questions - none of which are repeated from the first edition. Every chapter in this new edition has been reviewed, revised and updated, and 22 new chapters have been added to provide the most current coverage of the core of orthopaedic knowledge. The second edition includes: More full-colour images. Over 400 study questions. Coverage of imaging and physical examination. New material on pain management. New details on concussions. New information on electrophysiologic

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assessment. Online access for your study convenience - fully searchable text, with links to primary resources for online review.

Practical Q&A guide enhanced with unique diagrams and tables to ace the ABNS primary exam!

Neurosurgery Primary Examination Review: High Yield Questions, Answers, Diagrams, and Tables by Amgad S. Hanna addresses the knowledge gaps in currently existing neurosurgical board study guides. It is based on a collection of highly effective practice questions previously administered to neurosurgical residents at the University of Wisconsin. Each chapter covers two to three topics with 60 multiple choice and matching questions and only one correct answer. The reader-friendly content and layout make it easy to organize and review the complex subject matter in preparation for the ABNS written exam or for educational review. Section I is divided into 20 chapters with questions followed by answer keys. This section covers anatomy, neurology, pathology, radiology, critical care, neurosurgery, and neurobiology. Chapters 17-20 cover comprehensive exam questions and answers across all specialty areas including sarcoidosis, lead toxicity, central neurocytoma, and prion disease. Key Highlights Approximately 600 questions divided into 10 tests cover relevant knowledge for the exam Answer keys include salient information on important differentials More than 60 tables and diagrams provide a

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practical, self-directed method for organizing and retaining important facts More than 200 high-quality images including radiographs, pathology slides, anatomical drawings, and operative photographs accompany questions and answers This concise textbook is a must-have reference for all neurosurgical residents preparing to sit for the ABNS primary exam. Its format is also ideal for incorporating into the neurosurgical curriculum or as a study guide for the maintenance of certification exams.

Neurosurgery Rounds: Questions and Answers, Second Edition by Mark Shaya and an impressive cadre of coauthors and contributors, thoroughly prepares medical students and residents for common yet challenging questions frequently encountered during neurosurgery rounds. The convenient, easy-to-follow format provides diverse coverage of multiple disciplines intertwined in the understanding, care, and treatment of neurosurgical patients. Bringing the state of the art in neurosurgery up to date, nine revised and expanded chapters cover a full range of congenital, degenerative, traumatic, neoplastic, infectious, vascular, and inflammatory conditions impacting the brain, spine and peripheral nerves. Short answers and explanations appear directly below the questions, enabling quick reference during busy hospital shifts. Key Features More than 1,600 questions and answers test readers on a wide range of basic neuroscience, brain, spine, and peripheral nerve topics 30 featured cases provide invaluable clinical pearls and

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insightful discussions More than 175 high-quality radiographs and anatomical illustrations enhance the text This concise review is an essential lab coat companion for all medical students pursuing neurosurgical clerkships or sub-internships and junior residents on rounds.

Distributed Generation Systems: Design, Operation and Grid Integration closes the information gap between recent research on distributed generation and industrial plants, and provides solutions to their practical problems and limitations. It provides a clear picture of operation principles of distributed generation units, not only focusing on the power system perspective but targeting a specific need of the research community. This book is a useful reference for practitioners, featuring worked examples and figures on principal types of distributed generation with an emphasis on real-world examples, simulations, and illustrations. The book uses practical exercises relating to the concepts of operating and integrating DG units to distribution networks, and helps engineers accurately design systems and reduce maintenance costs. Provides examples and datasheets of principal systems and commercial data in MATLAB Presents guidance for accurate system designs and maintenance costs Identifies trouble shooting references for engineers Closes the information gap between recent research on distributed generation and industrial plants Neurosurgical vignettes in question and answer format provide robust prep for the ABNS oral exam!

Neurosurgery Case Review: Questions and Answers, 2nd Edition by Remi Nader, Abdulrahman Sabbagh,

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Samer Elbabaa, Hosam Al-Jehani, Jaime Gasco, and Cristian Gragnaniello provides a robust study guide for the American Board Neurological Surgery and the Royal College of Physicians and Surgeons of Canada oral board examinations. The second edition expands on the highly successful first edition, presenting 148 cases commonly encountered by neurosurgeons in clinical practice. The cases are broadly divided into seven sections—tumor, vascular intracranial pathology, trauma, pediatric, functional, spine, and peripheral nerves. The chapters are arranged in a manner that mirrors the oral board exam. Each case includes a brief clinical scenario followed by questions on presentation, diagnosis, imaging, management, surgical detail, complications, and outcome. The presented information is backed by the latest available evidence-based references and data.

Key Features: Contributions from internationally renowned neurosurgical educators Detailed answers enhance readers' knowledge and provide guidance on how to respond to questions asked in the oral board exams More than 750 high-quality images, many in full color, ensure visual understanding of key concepts Suggested readings at the end of cases offer additional study resources This is an indispensable, one-stop resource for neurosurgical residents and fellows prepping for the ABNS and Royal College oral board examinations. Neurosurgeons studying for recertification will also find this book an invaluable reference for rapid review.

This book deals with several selected aspects of electric power quality issues typically faced during grid

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integration processes of contemporary renewable energy sources. In subsequent chapters of this book the reader will be familiarized with the issues related to voltage and current harmonics and inter-harmonics generation and elimination, harmonic emission of switch-mode rectifiers, reactive power flow control in power system with non-linear loads, modeling and simulation of power quality issues in power grid, advanced algorithms used for estimating harmonic components, and new methods of measurement and analysis of real time accessible power quality related data.

Ideal for those studying biochemistry for the first time, this proven book balances scientific detail with readability and shows you how principles of biochemistry affect your everyday life. Designed throughout to help you succeed (and excel!), the book includes in-text questions that help you master key concepts, end-of-chapter problem sets grouped by problem type that help you prepare for exams, and state-of-the-art visuals that help you understand key processes and concepts. In addition, visually dynamic Hot Topics cover the latest advances in the field, while Biochemical Connections demonstrate how biochemistry affects other fields, such as health and sports medicine. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Covering all four critical care board exams (anesthesiology, surgery, internal medicine, and neurology), *Critical Care Medicine Review: 1000 Questions and Answers* prepares you for exam success as well as clinical practice in today's ICU. This full-color,

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easy-to-use review tool provides challenging case studies, relevant images, multiple-choice board-style questions, rationales for correct and incorrect answers, and references for every question. Edited by instructors of anesthesia and critical care from Harvard Medical School and Massachusetts General Hospital, this comprehensive resource is an ideal study guide for critical care fellows, recertifying practitioners, and CCRNs.

The entire text and study questions with fully-searchable content. Area of Focus: General Orthopaedics. Designed to prepare orthopaedic residents for the Orthopaedic In Training Exam (OITE), and the American Board of Orthopaedic Surgery (ABOS) Board Certification examination, this book is presented in an easy-to-read outline format for quick review and ready access to important facts. Organized by specialty, each of the 122 chapters is loaded with color images, illustrations, tables, and charts to support the material and help you retain the information. Hundreds of multiple-choice test questions drawn from current orthopaedic literature with integrated images help you measure your learning and knowledge. Each question includes the preferred response with additional discussion and explanation of the topics. Use it to assess your knowledge and increase your retention of the core knowledge of orthopaedics. The objective of this conference is to provide a forum for the dissemination and exchange of scientific and technical advancing international knowledge transfer ideas and progress among researchers concerned with the study of physical processes operating at the coast.

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This book is an ethnographic study of a comprehensive school in the south of England. It explores the views of teachers, Asian parents and their children concerning education and schooling. Young people between the ages of 13 and 18 were studied at home and at school and their experiences form the main focus of the study. The experiences of fifty Pakistani, Bangladeshi and Indian families - mostly of Muslim faith - are studied with a view to discovering what parents expect from their children's school and how the teachers perceive their own role with regard to their students. These young people are the first generation of Asians to be educated in Britain. Their location in terms of their social class positions, gender and ethnicity are inextricably bound together. They describe how they see their past and their future. This is the first study to take account of boys and girls in order to capture the complexity of their lived experiences.

Things to know about the great outdoors. For children. Do you like the great outdoors, do you like adventure? Then why not join B! and see what you can discover together. Nature is so important to us, lets help it out. B! would love that too.

Indispensable neurosurgical board examination book mirrors ABNS Q&A format Comprehensive, but small enough to take on rounds, the updated second edition of this popular neurosurgical board review provides a robust study companion for the American Board of Neurological Surgery (ABNS) primary examination. The text includes an impressive number of questions with concise and well-delineated explanations. Suitable for thorough board preparation, the question and answer format enables busy neurosurgical residents to efficiently practice, review, and improve upon their comprehension. In addition to all the fundamental disciplines that are relevant to the practice of neurosurgery, this edition encompasses the latest advances in the field

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including endovascular approaches, minimally invasive spinal surgery techniques, and genetics. The diverse and challenging questions encourage the acquisition of factual knowledge and application of logic. This is the definitive ABNS study book because it most closely mimics the written board examination format. Key Highlights Multiple choice Q&A format provides highly effective study tool Questions organized randomly, thereby simulating the written examination Short explanations provide readers with a clear understanding of the correct answers This is a must-have primer that will help neurosurgeons and neurosurgical residents study and pass the rigorous written board exam. Board-certified neurosurgeons will also find it a handy and useful resource to prepare for MOC examinations or to brush up on clinical know-how.

Bananas and plantains are among the most important food and cash crops in the world. They are cultivated in more than 135 countries, across the tropics and subtropics, with an annual global production of ca. 130 million metric tonnes. Though bananas are one of the most important components of food security in many developing countries, banana production is threatened by both abiotic and biotic stresses. These include a wide range of diseases and pests, such as bunchy top virus, burrowing nematodes, black Sigatoka or black leaf streak, Fusarium wilt, etc. In recent years, considerable progress has been made and several biotechnological and genomic tools have been employed to help understand and unravel the mysterious banana genome. Molecular and genomic studies have helped to decipher the Musa genome and its evolution. Genetic linkage map and whole genome sequencing of both *Musa acuminata* and *Musa balbisiana* (progenitors of cultivated banana) have completely changed the way of thinking and the approach on banana crop improvement. Whole-genome sequencing has

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helped to improve the selection of quantitative traits such as yield, as well as the selection of optimal parents for developing required hybrids in breeding programs. Gene isolation and the analysis of mutants have helped in the characterization of genes of agronomic value and the associated regulatory sequences. With the advent of molecular markers and new statistical tools, it is now possible to measure the diversity, identify genes and useful alleles linked to important agronomic traits. Further these alleles can be incorporated into cultivars through marker assisted selection or through transgenic approach. Transgenic approaches are potential tools for direct transfer of these genes into popular cultivars, which are generally not amenable for conventional breeding techniques, in specific with crops such as bananas which are sterile, triploid and heterozygous thereby making it difficult to reconstruct the recurrent genotypes in banana. Transgenic techniques thus have helped overcome the difficulty of working with sterile, triploid banana crop. In the last five years, enormous amount of new information and techniques have been generated for banana. A comprehensive book entitled “Banana: Genomics and Transgenic Approaches for Genetic improvement” on banana genomics, latest transgenic technologies and tools available for improved crop development in banana will address all these requirements.

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