
Written and edited by world-renowned experts in the field, Benson’s Spine Surgery: Techniques, Complication Avoidance and Management, 5th Edition, provides expert, step-by-step guidance on the evaluation and management of disorders of the spine. This definitive, two-volume work explores the full spectrum of techniques used in spine surgery, giving you the tools you need to hone your skills and increase your knowledge in this challenging area. Clearly organized and extensively revised throughout, it features contributions from both neurosurgeons and orthopaedic surgeons to present a truly comprehensive approach to spine disease. Offers a thorough overview of the effective management of patients with spinal disorders, including fundamental principles, biomechanics, applied anatomy, instrumentation, pathophysiology of spinal disorders, surgical techniques, motion preservation strategies, non-surgical management, and complication avoidance and management, as well as controversies. Focuses on both pathophysiology and surgical treatment of spine disease, with an increased emphasis on minimally invasive surgery. Contains new features such as key points boxes at the beginning of chapters and algorithms to help streamline the decision making process. Covers today’s hot topics in spine surgery, such as health economics, artificial intelligence, predictive analytics, new less invasive techniques including endoscopic spine surgery, and the future of spine surgery. Provides expert coverage of key topics including biomechanics of motion preservation techniques, spinal injuries in sports, biologics in spine fusion surgery, anterior sub-axial cervical fixation and fusion techniques, complex lumbosacral pelvic fixation techniques, and many more. Features more than 1,500 high-quality illustrations, as well as new procedural videos on en bloc spondylectomy, minimally invasive endoscopic posterior cervical foraminotomy, cervical total disc replacement, minimally invasive lumbar decompression of stenosis, and more.

Covers gasoline and diesel engines for most popular American trucks.

"TRB’s National Cooperative Highway Research Program (NCHRP) Report 737: Design Guidance for High-Speed to Low-Speed Transitions Zones for Rural Highways presents guidance for designing the transition from a high-speed rural highway to a lower-speed section, typically approaching a small town. The report includes a methodology for assessing these highway sections and a catalog of potential treatments for addressing problems."—Publisher’s description.

Focusing on modern sperm function testing, this guide is essential in selecting sperm that will produce viable and healthy embryos.

The Manual of Gender Dermatology is a research-based guide to the mechanisms of gender differentiation for common dermatologic conditions. Key topics include hormonal differences, genetic background, gender psychology, environmental effects, and a wide range of skin disorders that may have a gender bias. Written by experts in the fields of dermatology and cutaneous biology, this is an essential resource for practicing dermatologists and family practitioners, as well as for physician extenders, nurses, and students.

"A comprehensive and up-to-date review of the field provides detailed and Thorough discussions of all the key topics in the study of eating disorders" Zafra Cooper, Department of Psychiatry, Oxford University --

Organized according to the sequence mental health professionals follow when conducting an assessment, Groth-Marnat’s Handbook of Psychological Assessment, Sixth Edition covers principles of assessment, evaluation, referral, treatment planning, and report writing. Written in a practical, skills-based manner, the Sixth Edition provides guidance on the most efficient methods for selecting and administering tests, interpreting assessment data, how to integrate test scores and develop treatment plans as well as instruction on ways to write effective, client-oriented psychological reports. This text provides through coverage of the most commonly used assessment instruments including the Wechsler Intelligence Scales, Wechsler Memory Scales, Minnesota Multiphasic Personality Inventory, Personality Assessment Inventory, Millon Clinical Multiaxial Inventory, NEO Personality, Rorschach, Thematic Apperception Test, and brief assessment instruments for treatment planning, monitoring, and outcome assessment.

This comprehensive, well-illustrated manual offers you all the information necessary to provide a high level of care to patients with any musculoskeletal dysfunction of the entire vertebral column and temporomandibular joint (TMJ). This book describes the anatomy and biomechanics of each area of the spine, pelvis, and TMJ, and provides the theories behind the subjective and objective exams. Both students and clinicians of any level can use this book as a resource for an accurate biomechanical assessment and specific treatment plan design. Case studies and review questions are included along with details about both commonly encountered conditions as well as the more serious pathologies that can mimic a musculoskeletal dysfunction. FEATURES: * Clearly illustrates the anatomy and biomechanics of the spine, pelvis, and TMJ * Includes musculoskeletal and systemic case studies to highlight evaluation and treatment techniques * Offers treatment strategies and techniques for the entire spine, pelvis, and TMJ based on a wide range of philosophies * Differential Diagnosis principles are covered through the use of subjective examination, scanning examination, and special tests * Review questions included * Follows the APTA’s Guide to Physical Therapy Practice
This timely Handbook takes stock of the range of debates that characterise the field of international education and development, and suggests key aspects of a research agenda for the next period. It is deliberately divergent in its approach, recognising the major ideological and epistemological divides that characterise a field that draws on many traditions. Leading and emergent voices from different paradigms and contexts are afforded a space to be heard and each section puts current debates in larger historical contexts. The Handbook is divided in four parts and book-ended by an introduction and a conclusion, the latter oriented towards the implications that the volume has for future research agendas. The first part explores major strands of debates about education’s place in development theory. The second acknowledges the disciplining of the field by the education for all movement and examines the place that learning and teaching, and schools play in development. Part three looks beyond schools to consider early years, adult and vocational education but focuses particularly on the return to thinking about higher education’s role in development. The final part considers the changing, but still important, role that international cooperation plays in shaping education in developing countries. Featuring over thirty chapters written by leading international and interdisciplinary scholars, the Routledge Handbook of International Education and Development offers the first comprehensive and forward-looking resource for students and scholars.

Peace operations entail a special form of co-operation between nation-states and international organization, but tend to be most difficult for the soldiers, police and civilian officials on the ground. This volume highlights the latter role with case studies of Srebrenica and Somalia.

Medical simulation is a relatively new science that is achieving respectability among healthcare educators worldwide. Simulation and skills centres have become established to integrate simulation into mainstream education in all medical, nursing, and paramedical fields. Borrowing from the experience and methodologies of industries that are using simulation, medical educators are grappling with the problem of rapidly acquiring the skills and techniques required to implement simulation programmes into established curricula. This book assists both novice and experienced workers in the field to learn from established practitioners in medical simulation. Simulation has been used to enhance the educational experience in a diverse range of fields; therefore a wide variety of disciplines are represented. The book begins with a section on the logistics of establishing a simulation and skills centre and the inherent problems with funding, equipment, staffing and course development, and promotion. Section two deals with simulators and related training devices that are required to equip a stand-alone or institution-based centre. The features, strengths, and weaknesses of training devices are presented to help the reader find the appropriate simulator to fulfil their training requirements. There is a guide to producing scenarios and medical props that can enhance the training experience. The third section covers adult education and it reviews the steps required to develop courses that comply with ‘best practice’ in medical education. Teaching skills, facilitating problem-based learning groups and debriefing techniques are especially important to multidisciplinary skills centres that find themselves becoming a centre for medical education. The manual concludes with guides for the major specialties that use simulation, including military, paediatrics, CPR and medical response teams, obstetrics, and anaesthesia.

This extensively revised edition is an essential reference for physicians involved in the diagnosis, referral and treatment of the thoracic outlet syndrome (TOS). TOS is made up of a constellation of problems resulting from pathology at the thoracic outlet in the neck. Busy specialty practice sees multiple affected patients in every clinic, but TOS can often be difficult to diagnosis. Thoracic Outlet Syndrome explores all possible ancillary care issues surrounding this complex condition, including rehabilitation, disability, natural history and medicolegal issues, and aims to stimulate research, discussion and a sense of community between professionals involved in this area. Vascular and thoracic surgeons, neurosurgeons, neurologists, psychiatrists and psychologists, physical therapists, occupational medicine specialists and pain specialists will find this book a must read for successful treatment, referral and diagnosis of TOS in clinical practice.

Juvenile justice centers have a long tradition as an unfortunate stop for young offenders who need mental health care. Reports estimate that as many as 70% of the youth in detention centers meet criteria for mental health disorders. As juvenile justice systems once again turn their focus from confinement to rehabilitation, mental health providers have major opportunities to inform and improve both practice and policy. The Handbook of Juvenile Forensic Psychology and Psychiatry explores these opportunities by emphasizing a developmental perspective, multifaceted assessment, and evidence-based practice in working with juvenile offenders. This comprehensive volume provides insights into virtually every intersection of mental health practice and juvenile justice, covering areas as wide-ranging as special populations, sentencing issues, educational and pharmacological interventions, family involvement, ethical issues, staff training concerns, and emerging challenges. Together, its chapters contain guidelines not only for changing the culture of detention but also preventing detention facilities from being the venue of choice in placing troubled youth. Key issues addressed in the Handbook include: Developmental risks for delinquency. Race and sex disparities in juvenile justice systems. PTSD among court-involved youth. Female juvenile offenders. Juvenile sex offenders. The Handbook of Juvenile Forensic Psychology and Psychiatry is an essential reference for researchers, professionals, allied clinicians and professionals, and policy makers across multiple fields, including child and school psychology, child and adolescent psychiatry, developmental psychology, criminology, juvenile justice, forensic psychology, neuropsychology, social work, and education.

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