

Quick Reference Neuroscience For Rehabilitation Professionals The Essential Neurological Principles Underlying Rehabilitation Professionals Second Edition

Learn to become a better writer the SMART way. An Introduction to Writing for Health Professionals: The SMART Way, 4th Edition explores quick-and-easy methods to help you improve your writing skills. Thoroughly updated to reflect APA style guidelines, the fourth edition illustrates various forms of common written communication, such as email, instant messaging, blogs, letters, memos, reports, resumés, briefs, articles, presentations, research papers, and more. You are introduced to the essential elements of writing using the SMART approach - Source, Message, Audience, Route, and Tone, as well as steps to use when crafting academic papers (PROCESS), and key takeaways for becoming a better writer (LAST). These acronyms provide quick-and-easy ways to help you get started and organize your writings. It also includes handy quick reference lists and free additional resources on the companion Evolve website. UNIQUE! SMART, PROCESS, and LAST acronyms help facilitate learning by making the material easier to remember. Clear and straightforward writing style provides a reader-friendly approach to writing for learners of all levels. Common Error sections and Exercises featured throughout to reinforce content. APA style examples throughout text include those most commonly used in the health professions. NEW! Expanded coverage of research, digital literacy, communication on social media, and electronic mediums reflects advances in online culture. NEW! Fully revised SMART Ways for Other Routes chapter includes principles of documentation and charting, electronic communication (including email, instant messaging, social networking, and blogs), curriculum vitae, and dissertations. NEW! Points to Remember section at the end of each chapter (formerly SUMMARY) highlights key information using bullet points.

"As the role of the Physical Therapist Assistant (PTA) expands in the area of intervention approaches for neurological rehabilitation, the Third Edition of Neurorehabilitation for the Physical Therapist Assistant offers a timely update to reflect these emerging changes. Inside Neurorehabilitation for the Physical Therapist Assistant, Second Edition Dr. Darcy Umphred and Dr. Rolando Lazaro include a more comprehensive explanation and discussion of intervention techniques used in both pediatric and adult patient/client populations. Also included is a more thorough discussion of examination tools and their application because of the growing need for the PTA to identify the progress of the intervention using the tools from the initial examination and to assist in completing the discharge examination. Faculty will welcome the new and expanded instructor's materials for the classroom that include an online video library illustrating selected examination tools and intervention approaches. In this Second Edition, there are several video clips with Dr. Umphred demonstrating several clinical techniques that can enhance PTA practice. Additionally, an expanded study guide that provides case studies and Q&A for each chapter can be found on www.efacultyounge.com Neurorehabilitation for the Physical Therapist Assistant, Second Edition now includes a new chapter on documentation to help the PTA develop the skills necessary for clear record keeping as well as ensuring optimal patient care and reimbursement for services provided. Features: A clear delineation of the differences between the frameworks used by medical practitioners, those used by the PT, and those directly related to the PTA Detailed descriptions of interventions, tests, and measures used by the PTA Access to a website that includes an online video library and case studies and questions for each chapter, with new book purchase. A focus on interactions between types of movement dysfunctions and intervention selection Neurorehabilitation for the Physical Therapist Assistant, Second Edition is the perfect resource for any physical therapist assistant faculty, student, or clinician interested in the physical therapy management of individuals with various types of neurological conditions"--

A unique, easy-to-use, and definitive guide to diagnostic spine imaging Authored by renowned neuro-radiologist Steven P. Meyers, Differential Diagnosis in Neuroimaging: Spine is a stellar guide for identifying and diagnosing cervical, thoracic, lumbar, and sacral spine anomalies based on location and neuroimaging results. The succinct text reflects more than 25 years of hands-on experience gleaned from advanced training and educating residents and fellows in radiology, neurosurgery, and orthopaedic surgery. The high-quality MRI, CT, and X-ray images have been collected over Dr. Meyers's lengthy career, presenting an unsurpassed visual learning tool. The distinctive 'three-column table plus images' format is easy to incorporate into clinical practice, setting this book apart from larger, disease-oriented radiologic tomes. This layout enables readers to quickly recognize and compare abnormalities based on high-resolution images. Key Highlights Tabular columns organized by anatomical abnormality include imaging findings and a summary of key clinical data that correlates to the images Congenital/developmental abnormalities, spinal deformities, and acquired pathologies in both children and adults Lesions organized by region including dural, intradural extramedullary, extra-dural, and sacrum More than 600 figures illustrate the radiological appearance of spinal tumors, lesions, deformities, and injuries Spinal cord imaging for the diagnosis of intradural intramedullary lesions and spinal trauma This visually rich resource is a must-have diagnostic tool for trainee and practicing radiologists, neurosurgeons, neurologists, physiatrists, and orthopaedic surgeons who specialize in treating spine-related conditions. The highly practical format makes it ideal for daily rounds, as well as a robust study guide for physicians preparing for board exams.

This text includes stabilization techniques for the entire spinal column, ranging from the cranio-cervical junction to the pelvis. The information is presented in an easily digestible format that is suitable for those in school or training, yet includes pearls and insight that can be appreciated by even the most seasoned surgeon. The text is divided into major sections based on the anatomical regions of the spine – cervical, thoracic, and lumbosacral. An additional section is devoted to related surgical concepts and principles such as spinal biomechanics and bone grafting options. Each chapter has a uniform design including background, indications, patient selection, preoperative considerations, surgical technique, technical pearls, and strategies for complication avoidance. Preoperative and postoperative images and/or illustrations are utilized to highlight the presented information. Edited by a Neurosurgeon and an Orthopedist and written by leading national and international Neurosurgery and Orthopedic spine experts, Essentials of Spinal Stabilization provides a text which will broadly appeal to all spine care professionals.

The first neuroanatomy text written specifically for physical therapy students Instructors finally have a resource created specifically for physical therapy students taking a neuroanatomy course. Neuroanatomy for Physical Therapy provides readers with an understanding of the anatomical localization of brain function in order to help them accurately interpret the wealth of new human brain images now available. The author, a recognized expert in human nervous system development, includes numerous case studies with patient presentations, and due to its importance in physical therapy, extensive coverage of peripheral nerve damage.

- Content mirrors the standard physical therapy curriculum, freeing instructors from having to use neuroanatomy texts intended for medical students
- Numerous line illustrations, angiography, and brain views from MRI and other imaging modalities
- Author Tony Mosconi has been listed in the Who's Who of American Teachers (four different years)

This book is a quick reference guide to the radiology of head & neck tumors for busy clinicians. With the wide range of imaging modalities currently available and frequent upgrades in technology and image resolution, selecting the best modality for individual cases is not always easy. Balancing benefits of the investigation ordered with the costs incurred and inconvenience/risks as well as the clinician's familiarity with that particular imaging modality can be a daunting task. To aid in these decisions, this clearly written book includes case studies and focuses on the two most frequently used imaging modalities for head & neck tumors – CT and MR, presenting illustrations of clinical conditions, and where possible showing CT and MR images side-by-side for comparison.

Whatever the practice setting—acute care, rehabilitation, outpatient, extended care, or in a school—turn to this handy guide to the neurological examination. It covers all of the common neuromuscular conditions, disorders, and diseases you might encounter in patients throughout their lifespans. Thumb tabs and nearly 240 illustrations insure you can find just what you're looking for. Part of the Neurosurgery by Example series, this volume on pain neurosurgery presents exemplary cases in which renowned authors guide readers through the assessment and planning, decision making, surgical procedure, after care, and complication management of common and uncommon disorders. The cases explore the spectrum of clinical diversity and complexity within pain neurosurgery, including trigeminal neuralgia, postherpetic neuralgia, occipital neuralgia, percutaneous cordotomy for cancer-associated pain, chronic lumbar radiculopathy, and more. Each chapter also contains 'pivot points' that illuminate changes required to manage patients in alternate or atypical situations, and pearls for accurate diagnosis, successful treatment, and effective complication management. Containing a focused review of medical evidence and expected outcomes, Pain Neurosurgery is appropriate for neurosurgeons who wish to learn more about a subspecialty, and those preparing for the American Board of Neurological Surgery oral examination.

Practical and authoritative, this new edition delivers easy access to the latest advances in the diagnosis and management of musculoskeletal disorders and other common conditions requiring rehabilitation. Each topic is presented in a concise, focused, and well-illustrated two-color format featuring a description of the condition, discussion of symptoms, examination findings, functional limitations, and diagnostic testing. The treatment section is extensive and covers initial therapies, rehabilitation interventions, procedures, and surgery. From sore shoulders in cancer patients to spinal cord injuries, Essentials of Physical Medicine and Rehabilitation, 2nd Edition provides you with the knowledge you need to face every challenge you confront. Offers practical, clinically relevant material for the diagnosis and treatment of musculoskeletal conditions. Discusses physical agents and therapeutic exercise in the prevention, diagnosis, treatment and rehabilitation of disorders that produce pain, impairment, and disability. Presents a consistent chapter organization that delivers all the content you need in a logical, practical manner. Presents a new co-editor, Thomas D. Rizzo, Jr., MD, and a pool of talented contributors who bring you fresh approaches to physical medicine and rehabilitation. Offers current evidence and expert guidance to help you make more accurate diagnoses and choose the best treatment option for each patient. Features an entirely new section on pain management so you can help your patients reach their full recovery potential. Incorporates redrawn artwork that makes every concept and technique easier to grasp. Includes updated ICD-9 codes giving you complete information for each disorder.

The Sports Rehabilitation Therapists' Guidebook is a well-equipped, comprehensive, practical, evidence-based guide that seeks to assist both students and graduate sport practitioners. The book is designed to be a quick-reference book during assessment and treatment planning, giving instant access to figures and case scenarios. It introduces evidence-based practice in all principal areas of sport rehabilitation such as anatomy, musculoskeletal assessment, pitch-side care, injury treatment modalities and exercise rehabilitation principles and related areas, and is designed to be more flexible than the usual single-focus books. It is written by a team of expert contributors offering a systematic perspective on core concepts. The book can be used as a guide in each stage of the sport rehabilitation process and it is an asset for sport clinical practitioners such as sport rehabilitators, sport therapists, personal trainers, strength and conditioning coaches, as well as for students on these and related courses in their daily practice on core clinical placements such as a clinic/sporting environment, pitch side and university.

What began as a compilation of author notes from a real critical care hospital practice setting is now a pocket-sized powerhouse for critical care nurses and students! Quick Reference to Critical Care, 4th edition, provides thoroughly updated critical care content and updated cross-references with page numbers for even quicker reference and ease of use. Information is organized by body system, with each part presented alphabetically for fast, easy access. Full of fast facts, mnemonics, and over 200 images and tables!

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Bridge the gap between basic and clinical science with this authoritative guide to neuroscience Created by an expert team of neuroscience educators, this comprehensive guide delivers the knowledge and insight you need to build your understanding of neuroscience—quickly and easily. Divided into two parts, the guide offers a thorough treatment of the basic science of the anatomy and function of the nervous system, as well an extended treatment of nervous system disorders and therapeutics. Packed with 500 color illustrations, Essentials of Modern Neuroscience provides both clinical content and numerous cases in an engaging, simple-to-understand style. It includes the strong pedagogy that makes LANGE basic science titles so popular and provides chapter-opening Learning Objectives, bulleted chapter summaries, and application boxes. Covers both basic science and clinical cases for full mastery of the topic Organized to mirror the way medical schools teach neuroscience Presents information in a way that fosters maximum retention Unique chapters cover addiction, affective disorders, and neurologic diseases

A modernizing revision will make it one of the most comprehensive books that incorporate new findings in growing areas of neurology, memory, genetics, imaging and biochemistry - while retaining the book's traditional size, scope, focus, and successful uniform organization. New research findings, combined with several new and updated tables and figures, the book provides reliable guidelines on diagnosis and treatment of all neurological conditions and disorders.

his novel approach to learning neuroanatomy features a 2-page art/text format that stimulates the important aspect of integrated (right-brain/left brain) learning. Visual presentation is supported by text, rather than text supported by visual. A provocative, experiential color-to-learn mode actively engages the student in exploring the high-quality diagrams and brain dissections. Composite summaries are featured in the 2-page format, and the visual simplicity of labels and legends renders difficult material in a non-intimidating manner. Numerous review questions with answers and explanations help the reader assess what has been covered. Lecturers - Click here to order a FREE Review Copy of this title !

A full-color neuroscience text that skillfully integrates neuromuscular skeletal content Covers both pediatric and adult issues Beautiful full-color presentation with numerous images Neurorehabilitation in Physical Therapy delivers comprehensive coverage of the structure and function of the human nervous system. It also discusses normal motor development and motor control, as well as common treatment techniques in physical therapy. In order to be engaging to students, cases open each chapter, with questions about those cases appearing throughout the chapter. The text includes numerous tables, flow charts, illustrations, and multiple-choice board-style review questions and is enhanced by a roster of world-renowned clinical contributors.

Occupational therapists who work with adults with neurological problems must be able to appropriately and quickly use a variety of screening methods to pinpoint deficit areas and assess how these have impaired the person's daily life function. This comprehensive book compiles the most common occupational therapy screening methods used with adults with neurological conditions. Presented as a step-by-step instruction manual, the book includes copies of all screens and is presented in an easy-to-use format that facilitates its use in the clinic and in home health and community-based settings. It is also an ideal text for students, clearly outlining how to administer neurological screens in occupational therapy practice. Extensive use of photographs enhances the instructions and clearly shows practitioners how to use the various techniques. Book jacket.

The neuro rehab text that mirrors how you learn and how you practice! Take an evidence-based approach to the neurorehabilitation of adult and pediatric patients across the lifespan that reflects the APTA's patient management model and the WHO's International Classification of Function (ICF). You'll study examination and interventions from the body structure/function impairments and functional activity limitations commonly encountered in patients with neurologic disorders. Then, understanding the disablement process, you'll be able to organize the clinical data that leads to therapeutic interventions for specific impairments that can then be applied as appropriate anytime that impairment is detected, regardless of the medical diagnosis.

This Compendium is a comprehensive reference manual containing an extensive selection of instruments developed to measure signs and symptoms commonly encountered in neurological conditions, both progressive and non-progressive. It provides a repository of established instruments, as well as newly-developed scales, and covers all aspects of the functional consequences of acquired brain impairment. In particular, the text provides a detailed review of approximately 150 specialist instruments for the assessment of people with neurological conditions such as dementia, multiple sclerosis, stroke and traumatic brain injury. Part A presents scales examining body functions, including consciousness and orientation; general and specific cognitive functions; regulation of behaviour, thought, and emotion; and motor-sensory functions. Part B reviews scales of daily living activities and community participation. Part C focuses on contextual factors, specifically environmental issues, and Part D contains multidimensional and quality of life instruments. Each instrument is described in a stand-alone report using a uniform format. A brief history of the instrument's development is provided, along with a description of item content and administration/scoring procedures. Psychometric properties are reviewed and a critical commentary is provided. Key references are cited and in most cases the actual scale is included, giving the reader easy access to the instrument. The structure of the book directly maps onto the taxonomy of the influential International Classification of Functioning, Disability and Health (World Health Organization, 2001), enabling linkage of clinical concepts across health conditions. The Compendium will be a valuable reference for clinicians, researchers, educators, and graduate students, and a practical resource for those involved in the assessment of people with brain impairment. The book is accompanied by a password protected website. For a one-off payment, purchasers of the book can gain online access to the majority of the tests, scales and questionnaires featured in the book as downloadable PDFs. See inside the book for more details.

This 2nd edition remains the only comprehensive evidence-based text on the Occupational Therapy management of the stroke patient. The book is based on the most up-to-date research on stroke rehabilitation and presents its content in a holistic fashion, combining aspects of background medical information, samples of functionally based evaluations, and treatment techniques and interventions. There are chapters on specific functional aspects of living after stroke, such as driving, sexuality, mobility and gait, and self-care. Instructor resources are available; please contact your Elsevier sales representative for details. Case studies are featured in every chapter to help the reader understand how concepts apply to the real world. 2 chapters that feature the true stories of stroke victims, presenting occupational therapy situations from the point of view of the patient. Key terms, chapter objectives, and review questions help students better understand and remember important information. 7 new chapters make this text more comprehensive than ever! Psychological Aspects of Stroke Rehabilitation Improving Participation and Quality of Life Through Occupation The Task-Oriented Approach to Stroke Rehabilitation Approaches to Motor Control Dysfunction: An Evidence-Based Review Vestibular Rehabilitation and Stroke How Therapists Think: Exploring Clinician's Reasoning When Working With Clients Who Have Cognitive and Perceptual Problems Following Stroke A Survivor's Perspective II: Stroke Reflects the current terminology and categorization used by the WHO and the new AOTA Practice Framework so students will be equipped with the latest standards when they enter the workforce. Updated medication chart presents the latest drugs used in stroke rehabilitation.

"Psycho-oncology, 4th Edition is solemnly dedicated to Professor Jimmie C. Holland, M.D., internationally recognized as the founder of the field of Psycho-oncology. Dr. Holland, who was affectionately known by her first name "Jimmie", had a profound global influence on the fields of Psycho-oncology, Oncology, Supportive Care, Psychiatry, Behavioral Medicine and Psychosomatic Medicine. At the time of her passing, Dr. Holland was the Attending Psychiatrist and Wayne E. Chapman Chair at Memorial Sloan-Kettering Cancer Center (MSK) and Professor of Psychiatry, Weill Medical College of Cornell University in New York"--

Quick Reference Neuroscience for Rehabilitation Professionals is a concise and quick reference for the practitioner and student who are learning or reviewing the most relevant neuroscience principles supporting rehabilitation therapy.

Market includes physical therapists, physical therapy and occupational therapy students State-of-the-art images illustrate the injury and

healing process Includes a suggested treatment section for each injury listed Highly visual: 330 illustrations Covers radiography, CT, MRI, and ultrasound from the perspective of the therapist

Quick Reference Neuroscience for Rehabilitation Professionals The Essential Neurologic Principles Underlying Rehabilitation Practice SLACK Incorporated

Presents an emerging model in which occupational therapists practice as part of a team of vision rehabilitation professionals serving adults with low vision. Occupational therapists offer a unique contribution to the vision rehabilitation team, with a focus on meaningful occupational goals, the incorporation of occupation into therapy, and the orchestration of environmental, social, and non-visual personal factors into a treatment plan. The authors have developed a practical and straightforward text outlining an evaluation approach to interventions that focus on recovering occupational performance in adults.

"Quick Reference Neuroscience for Rehabilitation Professionals is a concise and quick reference for the practitioner and student who are learning or reviewing the most relevant neuroscience principles supporting rehabilitation therapy. The updated Third Edition continues to meet a need in the rehabilitation profession that has gone unfilled--the ability to break down neuroscience information into the essential principles that can be used to understand neurological conditions and the principles underlying rehabilitation evaluation and practice. Quick Reference Neuroscience for Rehabilitation Professionals, Third Edition provides a quick review of a specific neuroscience concept or critical neuroscience principles supporting a specific rehabilitation intervention. In this era of information overload, this text rapidly and thoroughly provides condensed information in a user-friendly, easy-to-use format for the practitioner to better convey that information to a patient. Dr. Sharon Gutman has divided the text into three primary sections: the first addresses neuroanatomy; the second addresses the function of neurological systems underlying physical, psychiatric, cognitive, and visual perceptual disorders; and the final section addresses clinical neuropathology related to aging, addiction, memory, and the neurological substrates of sex and gender. A specific section describes the common neurodiagnostic tests that therapists do not administer but must have knowledge of when results are discussed at treatment team meetings"--Provided by publisher.

Using Environments to Enable Occupational Performance is a unique new text that specifically focuses on how environments (physical, social, cultural, institutional) can be used by occupational therapists to enable occupational performance with all types of clients. This informative text provides a framework to think about how environments fit into occupational therapy theory and practice. Examples of different approaches to occupational therapy intervention involving environments are demonstrated in a comprehensive format. Community settings, institutions, mental health, pediatrics, hand rehabilitation, health promotion, and gerontology are just a few of the areas covered inside. Each chapter contains "real world" scenarios from occupational therapists about how the environment can be used to optimize occupational performance. Review questions are also included that ask the reader to apply the learned knowledge in a variety of settings. These features, along with the shared expertise of contributing authors, are beneficial to both students and clinicians in reinforcing the theory-practice link. Each title in the new Integrated series focuses on the core knowledge in a specific basic science discipline, while linking that information to related concepts from other disciplines. Case-based questions at the end of each chapter enable you to gauge your mastery of the material, and a color-coded format allows you to quickly find the specific guidance you need. Bonus STUDENT CONSULT access is included! These concise and user-friendly references provide crucial guidance for the early years of medical training, as well as for exam preparation. Includes case-based questions at the end of each chapter Features a colour-coded format to facilitate quick reference and promote effective retention Offers access to STUDENT CONSULT! At www.studentconsult.com, you'll find an interactive community center with a wealth of additional resources!

A landmark text presenting a new and revolutionary model of music in rehabilitation, therapy and medicine that is scientifically validated and clinically tested. Each of the 20 clinical techniques is described in detail with specific exercises, richly illustrated and with background information regarding research and clinical diagnoses.

This book, containing more than 200 cadaveric photos and 200 illustrations, aims to familiarize physicians practicing botulinum toxin type A (BoT-A) and filler injection with the anatomy of the facial mimetic muscles, vessels, and soft tissues in order to enable them to achieve optimum cosmetic results while avoiding possible adverse events. Anatomic considerations of importance when administering BoT-A and fillers are identified and in addition invaluable clinical guidelines are provided, highlighting, for example, the preferred injection points for BoT-A and the adequate depth of filler injection. Unique insights are also offered into the differences between Asians and Caucasians with regard to relevant anatomy. The contributing authors include an anatomist who offers distinctive anatomic perspectives on BoT-A and filler treatments and three expert physicians from different specialties, namely a dermatologist, a plastic surgeon, and a cosmetic physician, who share insights gained during extensive clinical experience in the use of BoT-A and fillers.

Essential Neuropharmacology: The Prescriber's Guide reviews the full range of medications used by neurologists in clinical practice. Expert knowledge is given about the best use of medications in patient care. Each drug listing contains the full range of indications, their advantages and disadvantages, and tips for dosing and avoiding adverse effects. Evidence is taken from recent clinical trials, which helps the reader relate the drug descriptions to everyday clinical practice. Where appropriate, off-label uses are also described. The detailed descriptions of each medication enable the user to make quick and informed decisions with the confidence they need to serve the clinical needs of their patients effectively. The new edition is fully updated throughout. Major new additions include neuro-oncology drugs, new multiple sclerosis agents, sleep medications and new formulations. This book is an essential, user-friendly reference suitable for neurologists at all stages of their careers.

Volume 2 of the Textbook of Neural Repair and Rehabilitation stands alone as a clinical handbook for neurorehabilitation.

This book is a practical, concise alternative to existing neurology textbooks. The outline format and standard chapter template offers the reader immediate, comprehensive information. The author is a well-respected educator who has a talent for making neurologic information accessible and understandable. Significant changes have been made to the therapeutics/management portion of the book as well as specific diagnosis-related chapters have been updated. More tables and figures allow the reader to find the information quickly. This book sits between a handbook and a textbook and distinguishes itself in its presentation of material in a problem-oriented format: 35 chapters discuss how to approach the patient with a variety of disorders; the second half of the book discusses treatment options.

All of the essential information you need to know about diseases... right at your fingertips! This handy, spiral-bound guide covers diagnoses and interventions for over 170 of the most common disorders seen in acute medical-surgical settings... from a nursing perspective.

The second edition of this introductory text uses clinical examples to bridge the gap between basic neuroscience and the practice of neurologic rehabilitation. Each chapter illustrates the relationship between the nervous system and behavior. Current, portable, and clearly written, the text covers discrete systems for acquiring information, the neural mechanisms that control specific kinds of human function, and how the nervous system responds to insult and injury. New in this edition: Neurotransmitters, support structures and blood supply, sensorimotor interaction, and aging of the nervous system.

Comprehensive Coverage of Therapeutic Modalities Used in a Clinical Setting A Doody's Core Title for 2011!

Therapeutic Modalities in Rehabilitation is a theoretically based but practically oriented guide to the use of therapeutic modalities for practicing clinicians and their students. It clearly presents the basis for use of each different type of modality and allows clinicians to make their own decision as to which will be the most effective in a given situation. Presented in full color, the text describes various concepts, principles, and theories that are supported by scientific research, factual evidence, and experience of the authors in dealing with various conditions. The chapters in this text are divided into six parts: Part I—Foundations of Therapeutic Modalities begins with a chapter that discusses the scientific basis for using therapeutic modalities and classifies the modalities according to the type of energy each uses.. Guidelines for selecting the most appropriate modalities for use in different phases of the healing process are presented. Part II—Electrical Energy Modalities includes detailed discussions of the principles of electricity, and electrical stimulating currents, iontophoresis, and biofeedback. Part III—Thermal Energy Modalities discusses those modalities which produce a change in tissue temperatures through conduction including thermotherapy and cryotherapy. Part IV-Sound Energy Modalities discusses those modalities that utilize acoustic energy to produce a therapeutic effect. These include therapeutic ultrasound and a lesser known modality-extracorporeal shockwave therapy. Part V—Electromagnetic Energy Modalities includes chapters on both the diathermies and low-level laser therapy. Part VI—Mechanical Energy Modalities includes chapters on traction, intermittent compression and therapeutic massage. Each chapter ins Parts II-IV discuss: the physiologic basis for use, clinical applications, specific techniques of application through the use of related laboratory activities, and relevant individual case studies for each therapeutic modality.

Addresses the information needed to understand the neuroscience of clinical rehabilitation. This book describes basic neuroanatomical structures and functions, neuropathology underlying specific clinical conditions, and theories supporting clinical treatment.

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