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Assistive Technologies- E-Book National Academies Press

Thoroughly updated to reflect the latest advances and technologies, Braddom's Physical Medicine and Rehabilitation, 6th Edition, remains the market leader in the field of PM&R. For more than 20 years, this bestselling reference has been the go-to resource for the entire rehabilitation team, providing in-depth coverage of essential core principles along with the latest research, technologies, and procedures that enhance patient care and facilitate optimal return to function. In this edition, lead editor Dr. David X. Cifu and his team of expert associate editors and contributing authors employ a more succinct format that emphasizes need-to-know material, incorporating new key summary features, including high-yield information and study sheets for problem-based learning. Focuses more heavily on rehabilitation, with case studies throughout and more comprehensive coverage of stroke evaluation, rehabilitation, and therapies. Provides expanded information on key topics such as interventional pain management options, gait and prosthetics, USG, fluoroscopy, electrodiagnosis and more. Features a new chapter on Occupational Medicine and Vocational Rehabilitation, plus enhanced coverage of the neurogenic bladder, rehabilitation and prosthetic restoration in upper limb amputation, and acute medical conditions including cardiac disease, medical frailty, and renal failure. Discusses quality and outcome measures for medical rehabilitation, practical aspects of impairment rating and disability determination, integrative medicine in rehabilitation, and assistive technology. Offers highly illustrated, templated chapters that are easy to navigate without sacrificing coverage of key topics. Includes access to dozens of even more practical videos and hundreds of integrated self-assessment questions for more effective learning and retention.

Cook & Hussey's Assistive Technologies John Wiley & Sons

This text serves as a high-yield review of spinal cord injury medicine in a multiple choice question-based format. The content covered reflects key topics relevant to clinical practice and subspecialty certification through the American Board of Physical Medicine and Rehabilitation (ABPMR) Spinal Cord Injury (SCI) Medicine examination. The 22 chapters are arranged topically to address the full scope of information relevant to the field of spinal cord injury medicine. Included with each question is a corresponding in-depth explanation, as well as pertinent references to supporting literature. The questions and educational explanations are written by leading experts in the field of spinal cord injury medicine and are designed to be board-relevant in both content and style. This question bank should be of use to anyone wishing to test and expand their knowledge of spinal cord injury medicine, including therapists, medical students, residents, fellows, and attending physicians of any specialty.

Orthotics and Prosthetics in Rehabilitation BRILL

Provides readers with knowledge of practical applications, theoretical models, services and evidence-based solutions in the areas of assistive technology (AT) and augmentative and alternative communication (AAC). This book equips practicing clinicians, educators and students with the necessary background to use AT and AAC with their clients.

The Promise of Assistive Technology to Enhance Activity and Work Participation CRC Press

This book provides a wide spectrum of readers with comprehensive but easily understandable protocols for the assessment and training of wheelchair skills. The Wheelchair Research Team at Dalhousie University and the Capital District Health Authority in Halifax (lead by the author) have focused on wheelchair safety and performance for three decades, as exemplified through the Wheelchair Skills Program. This is considered the top such program in the world. This new book is largely based on this program which has been accessed and utilized by over 75,000 people in 177 countries since 2007.

Visualization, Modeling, and Graphics for Engineering Design DIANE Publishing

Comparison of Skill and Functional Performance of Manual Wheelchair Users Choosing a Wheelchair System DIANE Publishing

Design of a Small Folding Table for a Wheelchair Elsevier Health Sciences

Volume 1 of the Textbook of Neural Repair and Rehabilitation covers the basic sciences relevant to recovery of function following injury to the nervous system.

Choosing a Wheelchair System Elsevier Health Sciences

The most-trusted resource for physiatry knowledge and techniques, Braddom's Physical Medicine and Rehabilitation remains an essential guide for the entire rehabilitation team. With proven science and comprehensive guidance, this medical reference book addresses a range of topics to offer every patient maximum pain relief and optimal return to function. In-depth coverage of the indications for and limitations of axial and peripheral joints through therapies enables mastery of these techniques. Optimize the use of ultrasound in diagnosis and treatment. A chapter covering PM&R in the international community serves to broaden your perspective in the field. Detailed illustrations allow you to gain a clear visual understanding of important concepts. New lead editor - Dr. David Cifu - was selected by Dr. Randall Braddom to retain a consistent and readable format. Additional new authors and editors provide a fresh perspective to this edition. Features comprehensive coverage of the treatment of concussions and military amputees. Includes brand-new information on rehabilitating wounded military personnel, the latest injection techniques, speech/swallowing disorders, head injury rehabilitation, and the rehabilitation of chronic diseases. New chapters on pelvic floor disorders and sensory impairments keep you at the forefront of the field. Reader-friendly design features an updated table of contents and improved chapter approach for an enhanced user experience. Expert Consult eBook version included with purchase. This enhanced eBook experience gives access to the text, figures, over 2,500 references, 51 videos, and 750 self-assessment questions on a variety of devices.

Lifespan Neurorehabilitation Elsevier Health Sciences

The most comprehensive physical therapy text available on the topic, *Orthotics & Prosthetics in Rehabilitation*, 3rd Edition is your one-stop resource for clinically relevant rehabilitation information. Evidence-based coverage offers essential guidelines on orthotic/prosthetic prescription, pre- and post-intervention gait assessment and outcome measurement, and working with special populations. Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Authoritative information from the *Guide to Physical Therapist Practice*, 2nd Edition is incorporated throughout. World Health Organization (WHO) International Classification of Function model provides consistent language and an international standard to describe and measure health and disability from a biopsychosocial perspective. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision making and evidence-based practice. A visually appealing 2-color design and a wealth of tables and boxes highlight vital information for quick reference and ease of use. Updated photos and illustrations reflect current clinical practice. Updated chapter on Assessment of Gait focuses on clinically useful outcome measures. Updated chapter on Motor Control and Motor Learning incorporates new insights into neuroplasticity and functional recovery. NEW! Integrated chapter on Lower Extremity Orthoses assists in clinical decision making about the best options for your patients. NEW! Chapter on Athletics after Amputation explores advanced training and athletics, including running and athletic competition to enhance the quality of life for persons with amputation. NEW! Chapter on the High Risk Foot and Wound Healing helps you recognize, treat, and manage wounds for the proper fit and management of the patient. NEW! Chapter on Advanced Prosthetic Rehabilitation provides more thorough rehabilitation methods beyond the early care of persons learning to use their prostheses.

The Essential Spinal Cord Injury Medicine Question Bank

Government Printing Office

Ideal for clinical settings, this unique, handheld reference provides the most vital details of assessment diagnosis and treatment in a portable, lay-flat format. The convenient organization with color-coded sections and information broken down into charts, tables, and lists makes it easy to find information quickly. With content compiled, created and reviewed by experts in PT practice and education, you'll have all of the information you depend on for academic and clinical success in one convenient reference! Coverage of preferred practice pattern key areas - including musculoskeletal, neuromuscular, cardiovascular and pulmonary, and integumentary - prepare you for situations you'll encounter in practice. Charts, tables, lists, and figures offer easy access to critical information, perfect for fast access in the field. Content on adult, pediatric and geriatric populations prepare you to provide the best care for each patient. Drug monographs include essential information on drugs that may affect physical therapy intervention. Tools for Practice section features important tools for clinical use including content on vital signs, lab values, common ICD-9 codes, American Sign Language, Spanish terminology, and drug monographs. A vibrant, full-color, user-friendly design with over 130 illustrations and color-coded sections makes it easy to find and understand information. Convenient, take-along format lays flat for easy reference in the busy clinical setting.

[Orthotics and Prosthetics in Rehabilitation - E-Book](#) Elsevier Health Sciences

SAGE Reference is proud to announce the five-volume Encyclopedia of Disability. This encyclopedia represents the first attempt to bring an authoritative reference resource to the many faces of disability. More than 500 world-renowned scholars have

written over 1,000 entries—in a clear, accessible style—with the desire to bring all students, researchers, and interested readers closer to the daily experience of disability. Volumes 1 - 4 cover disability A to Z, including a reader's guide, comprehensive bibliography, and index. Volume 5 contains a wealth of primary source documents in the field of disability. The Encyclopedia of Disability is a must-have reference for all academic libraries, large public libraries, and any social science, medical, legal, or governmental reference collections. Non-governmental organizations, charitable foundations, and law firms will also want to add this set to their collections.

[Comparison of Skill and Functional Performance of Manual Wheelchair Users](#) Comparison of Skill and Functional Performance of Manual Wheelchair Users Choosing a Wheelchair System

Providing a holistic and client-centered approach, *Assistive Technologies and Environmental Interventions in Healthcare* explores the individual's needs within the environment, examines the relationship between disability and a variety of traditional and cutting-edge technologies, and presents a humanistic discussion of Technology-Environment Intervention (TEI). Written by a multidisciplinary team of authors, this text introduces readers to a variety of conceptual practice models and the clinical reasoning perspectives. It also provides insight into how designers go about solving human-tech problems, discusses best practices for both face-to-face and virtual teams, and looks at the psychological, sociocultural, and cognitive factors behind the development and provision of assistive technologies. Examines a wide range of technologies and environmental interventions Demonstrates how a better understanding of the complexity of human interaction with both the physical and social environment can lead to better use of technology Explores the future of technology and research in TEI Complete with a range of learning features such as keywords, case studies and review questions, this book is ideal for undergraduate and graduate students in occupational therapy and other related health professions, as well as those undertaking certification and board examinations.

Pierson and Fairchild's Principles & Techniques of Patient Care - E-Book Springer Publishing Company

The Wheelchair Evaluation: A Clinician's Guide, Second Edition is an updated, practical, and concise reference on the wheelchair prescription process. It's perfect for students and clinicians in the health fields who work with physically disabled individuals in need of a wheelchair. This book is a portable, hands-on manual that implements a real-world approach to patient evaluation, choice of wheelchair components, documentation, and funding.

The Wheelchair Evaluation DIANE Publishing

"Seating and Wheeled Mobility: A Clinical Resource Guide" presents clinical assessment considerations when working with a person with a disability who may need wheelchair seating for postural support, skin integrity, or a wheelchair base to best meet dependent or independent mobility needs. Michelle L. Lange and Jean L. Minkel have designed this text to support occupational and physical therapists, complex rehabilitation technology suppliers, and even third-party payers who are interested in wheelchair seating and mobility assessment and applications. Seating and Wheeled Mobility provides a wide spectrum of information from foundational information for those practitioners who are new to the field to in-depth, population-specific information for practitioners who perhaps have not

worked with a particular population in the past. Information sharing, opportunities for demonstration and trial, and patience on the part of the clinician working with the person with a disability are all critical precursors to the actual process of making equipment recommendations. Seating and Wheeled Mobility is divided into sections, each addressing a different area of clinical practice: - The first section is an in-depth presentation of the assessment process and the critical understanding of pressure management needed by the clinical team when working with a client population who rely on wheeled mobility. - The second section focuses on postural support. Also included is a completely updated method to measure and describe the seated person and related support surfaces needed when recommending a device. - The third section lays the foundation for clinical decision making around the assessment for and application of the most appropriate wheeled mobility device"--Provided by publisher.

The market for wheelchairs : innovations and federal policy

Elsevier Health Sciences

Before you can master your role in physical therapy, you must first master the basics of patient care! Pierson and Fairchild's *Principles & Techniques of Patient Care*, 7th Edition provides a solid foundation in the knowledge and skills needed for effective patient care. Clear, step-by-step instructions show how to safely perform common procedures and tasks such as assessment of vital signs, positioning and draping, range of motion exercises, and patient transfer activities. Rationales make it easy to understand why specific techniques are used. Written by physical therapy experts Sheryl Fairchild and Roberta O'Shea, this book includes an enhanced eBook — free with each new print purchase — with video clips demonstrating procedures and techniques. Content based on the World Health Organization's ICF model (International Classification of Functioning, Disability, and Health) — the model currently endorsed by the APTA and AOTA — ensures you are referencing the most current theories and practice guidelines of physical and occupational therapy. More than 800 full-color photographs illustrate the concepts and techniques used in the assessment and management of patients in the rehabilitation setting. Procedure boxes include clear guidelines for performing each step of patient care tasks such as proper lifting techniques, patient transfers, basic wound care, and assessment of vital signs. Insights into physiological principles and rationales explain why specific techniques and procedures are used. Guidelines, principles, and precautions boxes offer additional tips for optimal assessment and management of patients in the rehabilitation setting. Self-study and problem-solving activities include case studies at the end of each chapter to help you understand important concepts and practice your decision-making and problem-solving skills. Coverage of professionalism, professional values, and ethics discusses workplace guidelines and describes how to apply those guidelines to your patient interactions. NEW! Revised content provides the current information you need to be an effective practitioner in physical therapy and occupational therapy, and includes input from clinical experts. NEW! Content on COVID-19 includes instructions on donning and doffing PPE, and is aligned with the latest CDC guidelines. NEW! Updated patient questions and documentation guidelines on wound care are included. NEW! Coverage of preventive patient positioning and objectively assessing patient pain is updated and expanded. NEW sections address early mobilization and exercise in the ICU. NEW! Enhanced eBook version — included with print purchase — allows you to access all of the text, figures, and references from the book on a variety of devices. NEW! Video clips are included in the eBook, demonstrating techniques and procedures.

Mosby's Field Guide to Physical Therapy Slack

The U.S. Census Bureau has reported that 56.7 million Americans had some type of disability in 2010, which represents 18.7 percent of the civilian noninstitutionalized population included in the 2010 Survey of Income and Program Participation. The U.S. Social Security Administration (SSA) provides disability benefits through the Social Security Disability Insurance (SSDI) program and the Supplemental Security Income (SSI) program. As of December 2015, approximately 11 million individuals were SSDI beneficiaries, and about 8 million were SSI beneficiaries. SSA currently considers assistive devices in the nonmedical and medical areas of its program guidelines. During determinations of substantial gainful activity and income eligibility for SSI benefits, the reasonable cost of items, devices, or services applicants need to enable them to work with their impairment is subtracted from eligible earnings, even if those items or services are used for activities of daily living in addition to work. In addition, SSA considers assistive devices in its medical disability determination process and assessment of work capacity. The Promise of Assistive Technology to Enhance Activity and Work Participation provides an analysis of selected assistive products and technologies, including wheeled and seated mobility devices, upper-extremity prostheses, and products and technologies selected by the committee that pertain to hearing and to communication and speech in adults.

Physical Medicine and Rehabilitation E-Book Jones & Bartlett Publishers

A team of noted OTA and OT leaders and educators deliver practical, in-depth coverage of the most common adult physical conditions and the corresponding evidence-based occupational therapy interventions. The authors blend theory and foundational knowledge with practical applications to OTA interventions and client-centered practice. This approach helps students develop the critical-thinking and clinical-reasoning skills that are the foundation for professional, knowledgeable, creative, and competent practitioners.

Choosing a Wheelchair System F.A. Davis

At receptions, parties, networking events, or other social functions, able-bodied people move around the room from conversation to conversation carrying a drink and/or a little plate of food. People who use wheelchairs for mobility are limited by their need to use their hands to push their wheelchair about the room. This thesis addresses this need through the design of a table that can attach to a manual wheelchair to hold food and drink. The table is engineered to be lightweight, small enough to fit in a backpack, hold a wine glass, and prevent food from sliding off its surface when the wheelchair goes over bumps. The thesis documents the design of the table- it is a simple, contemporary design made primarily of aluminum and vinyl. Preliminary mockups were built to test and refine the table concept and key details, while a detailed digital model for the final design was developed. Because the market for such a product is very small, the table will be manufactured by CNC machining and it will cost upwards of \$100.

Encyclopedia of Disability Elsevier Health Sciences

It's here: the latest edition of the one text you need to master assistive strategies, make confident clinical decisions, and help improve the quality of life for people with disabilities. Based on the Human Activity Assistive Technology (HAAT) model, *Assistive Technologies: Principles and Practice*, 4th Edition provides detailed coverage of the broad range of devices, services, and practices that comprise assistive technology, and focuses on the relationship between the human user and the assisted activity within specific contexts. Updated and expanded, this new edition features coverage of new ethical issues, more explicit applications of the HAAT model, and a variety of global issues highlighting technology applications and service delivery in developing countries. Human Activity Assistive Technology (HAAT) framework demonstrates assistive technology within common, everyday contexts for more relevant application. Focus on clinical application guides you in applying concepts to real-world situations. Review questions and chapter summaries in each chapter help you assess your understanding and identify areas where more study is needed. Content on the impact of AT on children and the role of AT in play and education for children with disabilities demonstrates how AT can be used for early intervention and to enhance development.

Coverage of changing AT needs throughout the lifespan emphasizes how AT fits into people's lives and contributes to their full participation in society. Principles and practice of assistive technology provides the foundation for effective decision-making. NEW! Global issues content broadens the focus of application beyond North America to include technology applications and service delivery in developing countries. NEW! Ethical issues and occupational justice content exposes you to vital information as you start interacting with clients. NEW! More case studies added throughout the text foster an understanding of how assistive technologies are used and how they function. NEW! Updated content reflects current technology and helps keep you current. NEW! Explicit applications of the HAAT model in each of the chapters on specific technologies and more emphasis on the interactions among the elements make content even easier to understand.

Braddom's Physical Medicine and Rehabilitation Jones & Bartlett Learning

Note to Readers: Publisher does not guarantee quality or access to any included digital components if book is purchased through a third-party seller. This revised and greatly expanded sixth edition of Pediatric Rehabilitation continues to set the standard of care for clinicians and remains the premier reference dedicated to education and training in the field of pediatric rehabilitation medicine. Under the direction of a new editorial team, this text brings together renowned specialists from all sectors of the pediatric rehabilitation community to provide the most current and comprehensive information with evidence-based discussions throughout. The sixth edition encompasses substantial updates from beginning to end and addresses emerging topics in the field with eight entirely new chapters devoted to brachial plexus palsy, oncology, robotics, genetics, spasticity management, rheumatology, burns, and advocacy. Major revisions to chapters on spinal cord injuries, acquired brain injury, cerebral palsy, neuromuscular diagnoses, and medical care of children reflect recent advances and expand coverage to include pediatric stroke, anoxic brain injury, bone health, pain management, and more. Chapter pearls, detailed summary tables, and over 250 figures emphasize major takeaways from the text for readers. With contributors chosen both for their academic and clinical expertise, chapters offer a real hands-on perspective and reference the most up to date literature available. Pediatric Rehabilitation covers all aspects of pediatric rehabilitation medicine from basic examination and testing to in-depth clinical management of the full range of childhood disabilities and injuries. As the foundational reference dedicated to the field of pediatric rehabilitation medicine over 6 editions, the book provides a thorough and contemporary review of clinical practice principles and serves as the primary resource for trainees and clinicians in this area. Key Features: Thoroughly revised and expanded new edition of the seminal reference for the field of pediatric rehabilitation medicine Contains eight entirely new chapters to address areas of growing importance Increased coverage of core topics including brain injury and concussion in children, integrated spasticity management, lifespan care for adults with childhood onset disability, pediatric stroke, and much more 13 high-quality gait videos review ambulation in children and adults with cerebral palsy New editorial team and many new contributors provide new perspectives and a modern evidence-based approach Clinical pearls and highly illustrative tables and lists underscore most essential information

Elsevier Health Sciences

Gain a strong foundation in the field of orthotics and prosthetics! Orthotics and Prosthetics in Rehabilitation, 4th Edition is a clear, comprehensive, one-stop resource for clinically relevant rehabilitation information and application. Divided into three sections, this text gives you a foundation in orthotics and prosthetics, clinical applications when working with typical and special populations, and an overview of amputation and prosthetic limbs. This edition has been updated with coverage of the latest technology and materials in the field, new evidence on effectiveness and efficacy of interventions and cognitive workload associated usage along with enhanced color photographs and case studies - it's a great resource for students and rehabilitation professionals alike. Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Book organized into three parts corresponding with typical patient problems and clinical decision-making. The latest evidence-based research throughout text help you learn clinical-decision making skills. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision-making and evidence-based practice. World Health Organization disablement model (ICF) incorporated to help you learn how to match patient's limitations with the best clinical treatment. Multidisciplinary approach in a variety of settings demonstrates how physical therapists can work with the rest of the healthcare team to provide high quality care in orthotic/prosthetic rehabilitation. The latest equipment and technology throughout text addresses the latest options in prosthetics and orthotics rehabilitation Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. A wealth of tables and boxes highlight vital information for quick reference and ease of use. NEW! Color photographs improve visual appeal and facilitates learning. NEW! Increased evidence-based content includes updated citations; coverage of new technology such as microprocessors, microcontrollers, and integrated load cells; new evidence on the effectiveness and efficacy of interventions; and new evidence on cognitive workload usage. NEW! Authors Kevin K Chui, PT, DPT, PhD, GCS, OCS, CEEAA, FAAOMPT and Sheng-Che (Steven) Yen, PT, PhD add their expertise to an already impressive list of contributors.