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Neuroscience - E-Book 2017-10-30

boost your skills in planning and managing physical rehabilitation neuroscience fundamentals for rehabilitation 5th edition provides a practical guide to the nervous system and how it affects the practice of physical and occupational therapy case studies and first person stories from people with neurologic disorders make it easier to apply your knowledge to the clinical setting new to this edition are new chapters on neuroanatomy imaging and neurologic examination techniques written by noted pt educator laurie lundy ekman this book uses evidence based research to help you understand neurologic disorders and treat clients who have physical limitations due to nervous system damage or disease logical systems approach to neuroscience makes it easier to master complex information and provides a framework for conducting a neurologic examination and evaluation a clinical perspective of neuroscience is provided through case studies personal stories written by patients and summaries of key features of neurologic disorders and the body systems they affect five sections overview of neurology neuroscience at the cellular level development of the nervous system vertical systems and regions first show how neural cells operate and then allow you to apply your knowledge of neuroscience emphasis on topics critical to physical rehabilitation includes coverage of abnormal muscle tone chronic pain control of movement and differential diagnosis of dizziness hundreds of color coded illustrations show body structures and functions across systems clinical notes case studies demonstrate how neuroscience knowledge may be applied to clinical situations pathology boxes provide a quick summary of the features of neurologic disorders commonly encountered in rehabilitation practice new neuroimaging and neuroanatomy atlas chapter includes mri and ct images new neurologic disorders and the neurologic examination chapter provides detailed descriptions and photographs of techniques new diagnostic clinical reasoning boxes help you develop the ability to recognize patterns of signs and symptoms associated with specific diagnoses new updated content reflects the most current research findings new reader friendly approach converts long technical chapters into smaller more accessible chapters new reorganized chapters progress from the cellular view to the systems view to the regional view

Neuroscience 2002

this practical guide to neuroscience focuses on the evidence based information that is most relevant to the practice of physical rehabilitation stories written by real people with neurological disorders case studies and lists summarizing key features of neurological disorders help you connect the theory of neuroscience with real world clinical application book jacket

Neuroscience 4/e: Fundamentals for Rehabilitation (Paperback) 2012-11-21

with this updated second edition tammy richmond and dave powers take the health care professional to the next level of implementing successful business operations by the introduction of applications of management principles as well as implementation of evidence based practice guidelines and basics to billing and coding documentation business fundamentals for the rehabilitation professional second edition addresses how to identify emerging business opportunities legal and health care regulatory issues market research and development and health care operations book jacket

Business Fundamentals for the Rehabilitation Professional 2009

use your knowledge of the nervous system to understand and treat neurologic disorders neuroscience fundamentals for rehabilitation 6th edition provides an illustrated guide to neurology and how it affects the practice of physical and occupational therapy case studies and first person stories from people with neurologic disorders make it easier to develop clinical reasoning skills and apply your knowledge to the clinical setting this edition includes an enhanced ebook free with each purchase of a new print book written by noted pt educator laurie lundy ekman neuroscience uses evidence based research to help you evaluate and treat clients who have physical limitations due to nervous system damage or disease logical systems approach to neuroscience makes it easier to master complex information and provides a framework for conducting a neurologic examination and evaluation clinical perspective of neuroscience is provided through case studies personal stories written by people with neurologic disorders and summaries of key features of neurologic disorders and the body systems they affect six sections overview of neurology neuroscience at the cellular level development of the nervous system vertical systems regions and neurologic tests first show how neural cells operate and then allow you to apply your knowledge of neuroscience coverage of key physical rehabilitation topics includes abnormal muscle tone chronic pain control of movement and differential diagnosis of dizziness hundreds of color coded illustrations show body structures and functions across systems full color atlas includes photographs of the human brain along with labeled line drawings clinical notes case studies demonstrate how neuroscience concepts may be applied to clinical situations pathology boxes provide a quick summary of the features of neurologic disorders commonly encountered in rehabilitation practice new quick reference lists on the inside book covers make it easy to find frequently consulted figures reflexes tables and summaries within the text new updated chapters include pain as a disease and as a symptom motor system upper motor neurons motor and psychological functions brainstem region and neurologic tests new

85 new or updated figures are added to this edition new nearly 600 new references are added to this edition 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 answers to the book's case studies and a student workbook with approximately 1 000 practice questions and answers are included in the ebook

Neuroscience - E-Book 2022-04-20

this definitive work the combined effort of 30 international contributors provides in depth discussion of neuropsychological rehabilitation the consequences of brain injury fundamentals of recovery current rehabilitation models and treatment remarkable in the depth of its content this publication reveals the numerous changes that have occurred over the past decade and the new pathways open to treating tbi experts from the united states and europe detail the consolidation of neuropsychological rehabilitation as an interdisciplinary field with strong clinical and applied roots the material explores the foundations which support and direct treatment and it combines those foundations with a vision of the current state of the most innovative methodologies e g gene therapy post traumatic sleep disorder intervention neural transplants

Neuropsychological Rehabilitation 1997-01-16

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 chose 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

Neuroscience 2022-06-15

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

Essentials of Physical Medicine and Rehabilitation E-Book 2008-07-02

continues to provide a concise straightforward guide to the assessment and management of the more commonly encountered hand injuries and conditions the book is brief whilst still retaining sufficient theoretical background to provide a rationale for treatment a popular and well established practical manual totally updated and revised for this new edition containing many new chapters and illustrations with a revised format for even greater clarity an accessible quick reference book for all those involved in this difficult area of rehabilitation

Quick Reference Neuroscience for Rehabilitation Professionals 2008

this pocket 4 5x8 guide for healthcare professionals and students provides concise information on physical medicine and rehabilitation diagnoses chapters give information on anatomy epidemiology pathophysiology assessment and treatment and complications this second edition features new chapters on geriatric rehabilitation wheelchairs and electrodiagnostic studies garrison is medical director of the rehabilitation center at the methodist hospital annotation c 2003 book news inc portland or booknews com source inconneue

The Hand 2001

answering the widespread demand for an introductory book on rehabilitation engineering re dr rory a cooper a distinguished re

authority and his esteemed colleagues present an introduction to rehabilitation engineering this resource introduces the fundamentals and applications of re and assistive technologies ats after providing a

Handbook of Physical Medicine and Rehabilitation 2003

this book examines the physiological effect of therapeutic manipulation and touch on the human body it presents the physiological neurophysiological and psychological basis of manual techniques giving the therapist the background and theory needed to support practice and helping therapists to provide safer and more effective treatment

An Introduction to Rehabilitation Engineering 2006-12-26

functional training develops the attributes and abilities required to perform tasks skills and activities useful and relevant to daily life functional exercise and rehabilitation serves as an accessible and visual guide providing the essentials of therapeutic exercise and rehabilitation including mobilization stabilization and myofascial release this book begins by explaining functional training and the foundation of the strive approach chapter 2 introduces functional anatomy and chapter 3 explains the fundamentals of neuroscience the final chapters discuss the strive principles and apply them to exercise program design and injury recovery each chapter includes key point boxes illustrations and photos of exercises discussed written by an exercise specialist and osteopath this practical guide is presented in an easy to read style functional exercise and rehabilitation is essential reading for all health professionals sports therapists and trainers involved in exercise prescription

Fundamentals of Manual Therapy 1997

neuroscience fundamentals for communication sciences and disorders second edition is a comprehensive textbook primarily designed for undergraduate neural bases or graduate neuroscience courses in communication sciences and disorders programs csd the text can also be used as an accessible go to reference for speech language pathology and audiology clinical professionals practicing in medical and rehab settings written with an engaging and conversational style the author uses humor and analogies to explain concepts that are often challenging for students complemented by more than 400 visually rich and beautifully drawn full color illustrations the book emphasizes brain and behavior relationships while also ensuring coverage of essential neuroanatomy and neurophysiology in an integrative fashion with a comprehensive background in the principles processes and structures underlying the workings of the human nervous system students and practitioners alike will be able to better understand and apply brain behavior relationships to make appropriate clinical assessments and treatment decisions extending well beyond traditional neuroanatomy based textbooks this resource is designed to satisfy three major goals provide neuroanatomical and neurophysiological detail that meets the real world needs of the contemporary csd student as they move forward toward clinical practice and into the future where advancements in the field of health and brain sciences are accelerating and contributing more and more each day to all areas of rehabilitation provide clear understandable explanations and intuitive material that explains how and why neuroanatomical systems processes and mechanisms of the nervous system operate as they do during human behavior provide a depth and scope of material that will allow the reader to better understand and appreciate a wide range of evidence based literature related to behavior cognition emotion language and sensory perception areas that all directly impact treatment decisions new to the second edition 40 new full color illustrations reorganization and division of content from chapters 4 5 and 6 of the previous edition into six new and more digestible chapters a new standalone chapter on the cranial nerves addition of a major section and discussion on the neural bases of swallowing addition of more summary tables and process flowcharts to simplify the text and provide ready made study materials for students revisions to most figures to improve their clarity and coherence with the written material disclaimer please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book

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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

Rehabilitation Counseling 1998

featuring contributed chapters from experts within the discipline fundamentals of clinical rehabilitation counseling provides readers with a vast range of knowledge and skills to help them work effectively with individuals with disabilities the text familiarizes readers with chief concepts and prepares them to move into expanded explorations of these topics as they continue their education and training within the field the textbook opens with an overview of the historical context of clinical rehabilitation counseling relevant rehabilitation legislation a global perspective of disability the impact of abuse and neglect on persons with disabilities and the applicability of ethical concepts in clinical rehabilitation counseling additional chapters introduce the concepts of vocational rehabilitation work and disability as well as the role of assessment case management independent living assistive technology and forensic rehabilitation within the discipline readers are presented with applicable concepts that speak to the challenges clinical rehabilitation counselors are called upon to champion when aiding people with disabilities to improve their quality of life on a global scale fundamentals of clinical rehabilitation counseling is an exemplary textbook for courses in clinical rehabilitation counseling and clinical mental health counseling

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the second edition of this single authored volume integrates multiple disciplines of basic and clinical research to help clinicians further develop the best possible care for the rehabilitation of patients with neurologic diseases from the readable descriptions of the structures and functions of pathways for movement and cognition the reader comes to understand the potential for training induced pharmacologic and near future biologic interventions to enhance recovery dr dobkin shows how functional neuroimaging serves as a marker for whether physical cognitive and neuromodulating therapies work and how they sculpt the plasticity of the brain themes such as how the manipulation of sensory experience can serve as a formidable tool for rehabilitation run throughout the text built from the level of the synapse to behaviors such as grasping walking and thinking from illustrating how we may one day repair the brain and spinal cord to how to retrain spared and new pathways dr dobkin draws insights from a broad swath of fundamental research to give clinicians tools they can translate into bedside practices the book treats the medical complications and therapeutic approaches to neurologic diseases as an interconnected matrix the management of common medical issues impairments and disabilities are described across diseases special problems posed by patients with stroke myelopathies brain injury multiple sclerosis degenerative diseases and motor unit disorders receive individual comment short term and delayed pulse interventions for patients along with clinical trials are dissected and put into perspective the first edition of this book was titled neurologic rehabilitation the title has been changed to reflect dr dobkin s sense that fundamental research now drives the field of neurologic rehabilitation even more than it could in 1996 when the first edition was published the second edition features entirely new chapters on functional neuroimaging of recovery neurostimulators and neuroprostheses integration into the book of many new clinical and neuroscientific observations relevant to the clinician and extensive updating and expansion of all chapters readers whether clinicians serving the rehabilitation team or students or researchers in neuroscience neurology physical medicine allied health or bioengineering will acquire new insights and tools for creative pursuits that aim to lessen the disabilities of patients

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the world of business is ever changing with much of the available information becoming quickly out of date business fundamentals for the rehabilitation professional second edition keeps pace with this changing world and provides the health care professional with the latest information to answer the what where how and when questions that come up when transforming a health care practice idea into a successful business with this updated second edition tammy richmond and dave powers take the health care professional to the next level of implementing successful business operations by the introduction of applications of management principles as well as implementation of evidence based practice guidelines and basics to billing and coding documentation business fundamentals for the rehabilitation professional second edition addresses how to identify emerging business opportunities legal and health care regulatory issues market research and development and health care operations new features in the second edition new management and operations checklist an in depth look at reimbursement billing and financial survival strategic target market promotions updated templates and tools review questions downloadable worksheets available with text purchase keeping the user friendly format of a workbook business fundamentals for the rehabilitation professional second edition is the perfect resource for master and doctorate level students preparing for the professional world as well as rehabilitation professionals and entrepreneurs interested in obtaining knowledge in starting up managing expanding or understanding the health care practice system what will you learn how to create a vision and mission statement how to

latest clinical treatments and rehabilitation techniques for a broad array of conditions disabilities and diseases now in a 1 volume and four color format for more precise accurate and easier reading focuses on current evidence and therapies and includes the most recent changes and updates in the field features new chapters on the epidemiology of disability globally polytrauma and physical medicine and rehabilitation in disaster relief additional online only chapter content figures and tables accessible through the ebook several international contributors have been added giving this edition a global perspective enrich your ebook reading experience read directly on your preferred device s such as computer tablet or smartphone easily convert to audiobook powering your content with natural language text to speech

The Clinical Science of Neurologic Rehabilitation 2003-01-16

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Business Fundamentals for the Rehabilitation Professional 2024-06-01

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Neurorehabilitation for the Physical Therapist Assistant 2006

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Fundamentals of Musculoskeletal Imaging 2013-12-26

the discipline of rehabilitation engineering draws on a wide range of specialist knowledge from the biomedical sciences to materials technology rehabilitation engineering applied to mobility and manipulation provides broad background and motivational material to ease readers introduction to the subject the book begins with a wide ranging yet concise introduction to the legislative technological testing and design basis of rehabilitation engineering followed by the fundamentals of design and materials and a full account of the biomechanics of rehabilitation major sections of the book are devoted to various aspects of mobility including detailed discussion of wheelchair design valuable additional material deals with seating prosthetic devices robotics and the often neglected subject of recreational devices and vehicles more than a thousand references to the research and review literature put readers in touch with the leading edge of a rapidly growing field

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Vestibular Rehabilitation 2000

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DeLisa's Physical Medicine and Rehabilitation 2019-07

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Big Picture□□□□ 2014-11-30

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DeLisa's Physical Medicine and Rehabilitation 2020

Fundamentals of Hearing Rehabilitation 2009-01

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Rehabilitation Engineering Applied to Mobility and Manipulation 2015-03-05

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