



Neurological Rehabilitation

Optimizing Motor Performance

Janet Carr
Roberta Shepherd

Neurological Rehabilitation Optimizing Motor Performance 2e

**Heidi McHugh Pendleton, Winifred
Schultz-Krohn**



Neurological Rehabilitation Optimizing Motor Performance 2e:

Neurological Rehabilitation Janet H. Carr, Roberta B. Shepherd, 2010-07-12 The Pageburst™ E Only version of this title gives you access to the complete book content electronically Pageburst™ enhances learning by not only bringing world class content to your fingertips but also letting you add to it annotate it and categorize it all in a way that suits you Pageburst™ frees you to spend more time learning and less time searching Janet Carr and Roberta Shepherd head up a new team of eminent authors for the second edition of this definitive text on neurological physiotherapy In the first edition the authors described a model of neurological rehabilitation for individuals with motor dysfunction based on scientific research in the areas of neuromuscular control biomechanics motor skill learning and the link between cognition and action together with developments in pathology and adaptation The new edition continues to advance this model while identifying and incorporating the many advances that have occurred in the last decade in the understanding and treatment of adults with neurological conditions whether caused by accident or disease Among these advances is the knowledge that the brain retains a plastic potential to reorganize even in old and or lesioned brains and that neural plasticity can be influenced by task related mental and physical practice in a stimulating environment There is also an increasing body of knowledge related to the musculoskeletal system s adaptability and the need to prevent length and stiffness related changes in muscle contractility together with loss of aerobic fitness and endurance There is an expanding body of clinical research that appears to support the model provided here The training guidelines outlined in *Neurological Rehabilitation* are based on biomechanical constructs and motor relearning research applied to enhance brain reorganization and muscle contractility and encourage functional recovery of the patient It connects science and clinical practice enabling students and practitioners to develop their knowledge and use new clinical methods based on modern scientific understanding Please note that this version is the Pageburst ebook only and does not include the printed textbook Alternatively you can purchase the printed book with access to Pageburst included this gives you both the printed and the electronic version together All chapters have been revised some with the collaboration of five specialists who are engaged in high level scientific research and clinical practice Biomechanical models are presented to provide a framework for action specific training and exercise to improve performance Clinical guidelines are science and evidence based Emphasis is on new approaches to the delivery of neurological rehabilitation that increase the time spent in mental and physical activity and the intensity of practice and exercise Up to date referencing

Neurological Rehabilitation, 2/e Janet H. Carr, Roberta B. Shepherd, 2011-07-06 Janet Carr and Roberta Shepherd head up a new team of eminent authors for the second edition of this definitive text on neurological physiotherapy In the first edition the authors described a model of neurological rehabilitation for individuals with motor dysfunction based on scientific research in the areas of neuromuscular control biomechanics motor skill learning and the link between cognition and action together with developments in pathology and adaptation The new edition continues to advance this model while

identifying and incorporating the many advances that have occurred in the last decade in the understanding and treatment of adults with neurological conditions whether caused by accident or disease Among these advances is the knowledge that the brain retains a plastic potential to reorganize even in old and or lesioned brains and that neural plasticity can be influenced by task related mental and physical practice in a stimulating environment There is also an increasing body of knowledge related to the musculoskeletal system s adaptability and the need to prevent length and stiffness related changes in muscle contractility together with loss of aerobic fitness and endurance There is an expanding body of clinical research that appears to support the model provided here The training guidelines outlined in Neurological Rehabilitation are based on biomechanical constructs and motor relearning research applied to enhance brain reorganization and muscle contractility and encourage functional recovery of the patient It connects science and clinical practice enabling students and practitioners to develop their knowledge and use new clinical methods based on modern scientific understanding All chapters have been revised some with the collaboration of five specialists who are engaged in high level scientific research and clinical practice Biomechanical models are presented to provide a framework for action specific training and exercise to improve performance Clinical guidelines are science and evidence based Emphasis is on new approaches to the delivery of neurological rehabilitation that increase the time spent in mental and physical activity and the intensity of practice and exercise Up to date referencing

Task Oriented Gait Training Yang-Soo Lee,2024-09-26 Safe and independent gait is one of the most important physical function of human Gait training is essential to people with gait difficulty Although there are many types of gait training strategy there are no consensus on which one is the best Gait training strategy can be divided into compensatory approaches and restorative approaches Although people with severe impairment wish to restore normal walking it is too difficult to use their involved body part normally in gait Also people use compensatory approaches in gait even in training session Therefore forced use of involved body part is indispensable in gait training to people with severe impairment This book introduces new gait training frame which uses forced use of affected body part First strengthening of weakened muscle second step up with affected lower limb third step down with weight support with affected lower limb and fourth is step down touch Actual gait training starts after people can support their body weight and maintain balance with affected lower limb without using hand With this approach people can restore impaired body function regain more normal gait and can reach optimal outcome

Saunders' Q & A Review for the Physical Therapy Board Examination E-Book Brad Fortinberry,Saunders,2010-03-18 With over 1 200 multiple choice review questions written to parallel the content and format of the National Physical Therapy Board Examination NPTE Saunders Q A Review for the Physical Therapy Board Examination provides more NPTE practice than any other review resource available Strengthen your understanding of core principles across the full spectrum of physical therapy practice with comprehensive exam practice from specialty experts This title includes additional digital media when purchased in print format For this digital book edition media content is not

included More than 1 200 multiple choice questions test your understanding of key content across a variety of practice environments including schools hospitals and communities Organized by topic it parallels the content and proportional question breakdown of the board examination to familiarize you with the testing format Correct answers detailed rationales and specific references help you get more out of your study time

Umphred's Neurological Rehabilitation - E-Book
Rolando T. Lazaro,2025-09-24 Selected for 2025 Doody s Core Titles in Physical Medicine and Rehabilitation Develop essential problem solving strategies for providing individualized effective neurologic care Under the leadership of Rolando Lazaro Umphred s Neurological Rehabilitation Eighth Edition covers the therapeutic management of people with activity limitations participation restrictions and quality of life issues following a neurological event across the lifespan This comprehensive reference provides foundational knowledge and addresses the best evidence for examination tools and interventions commonly used in today s clinical practice It applies a time tested evidence based approach to neurological rehabilitation that is perfect for both the classroom and the clinic NEW Content addresses the movement system and clinical practice guidelines NEW Two new chapters on special focus topics explore COVID 19 and reframing selected intervention strategies NEW Content explores COVID 19 as it relates to the neurologic system NEW Enhanced ebook version included with every new print purchase features videos and appendices and supplemental content for select chapters plus digital access to all the text figures and references with the ability to search customize content make notes and highlights and have content read aloud UPDATED Coverage focuses on linking evidence based examination and intervention tools Comprehensive coverage offers a thorough understanding of all aspects of neurological rehabilitation across the lifespan from pediatrics to geriatrics Expert authors and editors lend their experience and guidance for on the job success UNIQUE Section on neurological problems accompanying specific system problems includes hot topics such as poor vision vestibular dysfunction dementia and problems with cognition and aging with a disability Problem solving approach helps you apply your knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory and practice of neurologic rehabilitation evidence based examination and intervention tools and the patient s psychosocial concerns Case studies use real world examples to promote problem solving skills Terminology adheres to best practices following The Guide to Physical Therapy Practice and the WHO ICF World Health model

Pedretti's Occupational Therapy - E-Book Heidi McHugh Pendleton,Winifred Schultz-Krohn,2011-12-20 Chapter on polytrauma post traumatic stress disorder and injuries related to the War on Terror teaches you how to provide OT services to this unique population Content covers new advances in prosthetics and assistive technologies and provides more up to date assessment and interventions for TBI problems related to cognitive and visual perception Full color design visually clarifies important concepts Video clips on the companion Evolve website vividly demonstrate a variety of OT interventions

Ischemic Stroke Sheryl Martin-Schild,Hen Halleivi,Andrew Barreto,2018-11-30 Stroke is the fifth leading cause of death in the United

States and is a leading cause of adult disability and discharge from hospitals to chronic care facilities. Despite the frequency and morbidity of stroke, there is a relative paucity of stroke experts such as vascular neurologists and neurocritical care physicians to care for these patients. Clinical research in the diagnosis and treatment of stroke has grown exponentially over the past two decades, resulting in a great deal of new clinical information for attending physicians to absorb. Grounded in cutting edge and evidence based strategies, *Ischemic Stroke* closes the gap in stroke care by providing a cogent and intuitive guide for all physicians caring for stroke patients. Key topics explored cover all elements of stroke care including examinations of emergent evaluation of the suspected stroke patient, clinical signs and symptoms of stroke, mechanisms of ischemic stroke, neuroimaging, cardiac based evaluation, thrombolytic therapy, endovascular therapy, critical care management, rehabilitation, cardiac arrhythmias and structural heart disease.

[Therapeutisches Yoga](#) Daniel Völker, Lena Braun, Dorothea Hauswald, Gesine Ufkes, 2024-09-17. Dieses Buch gibt Ihnen neue Perspektiven zum Einsatz von Yoga als Behandlungsmethode. Es widmet sich der Anwendung des therapeutischen Yoga bei muskuloskelettalen neurologischen und internistischen Krankheitsbildern wie Multiple Sklerose, Long COVID, Koxarthrose und Halswirbelsäulen Syndrom. Zahlreiche Fallbeispiele aus der Praxis, die in fundiertes Grundlagenwissen eingebettet sind, veranschaulichen, wie Beschwerden mithilfe von Körper und Atemübungen aus dem Yoga nachhaltig gelindert und die Lebensqualität verbessert werden kann. Anhand der vorhandenen Fallbeispiele wird beschrieben, wie der klinische Denkprozess in Bezug zur externen und internen Evidenz umgesetzt wird. Zudem wird die Wirkungsweise der Yoga Praxis anhand aktueller Studien aus der Forschung dargestellt und auch der Bezug von Yoga zu den aktuellen therapeutischen Leitlinien hergestellt. Alle Informationen zum therapeutischen Yoga für die Praxis: Yoga im Therapeutischen Setting, Didaktik, Vorbereitung, Aufbau der Therapieeinheit, Yoga Anatomie und Wissenschaftliche Grundlagen des Yoga, Konkrete Yoga Programme für spezifische Zielstellungen und Krankheitsbilder, Therapieerfolge sichtbar machen, Assessments und Untersuchungsmethoden, Asanas individuell anpassen, Hilfsmittel, therapeutische Unterstützung, Hands on und Positionierung. 16 Videos und zahlreiche ausdrucksstarke Fotografien machen die praxisnahe Umsetzung einfach. Das Buch eignet sich für Therapeuten und Therapeutinnen sowie Auszubildende im Bereich Physiotherapie, Ergotherapie, Logopädie, die Yogalehrende.

[Umphred's Neurological Rehabilitation - E-Book](#) Rolando T. Lazaro, Sandra G. Reina-Guerra, Myla Quiben, 2019-12-05. Selected for Doody's Core Titles 2024 in Physical Medicine and Rehabilitation. Develop problem solving strategies for individualized effective neurologic care. Under the new leadership of Rolando Lazaro, *Umphred's Neurological Rehabilitation* 7th Edition covers the therapeutic management of people with activity limitations, participation restrictions, and quality of life issues following a neurological event. This comprehensive reference reviews basic theory and addresses the best evidence for evaluation tools and interventions commonly used in today's clinical practice. It applies a time tested evidence based approach to neurological rehabilitation that is perfect for both the classroom and the clinic. Now fully searchable with additional case studies through Student Consult, this edition

includes updated chapters and the latest advances in neuroscience Comprehensive reference offers a thorough understanding of all aspects of neurological rehabilitation Expert authorship and editors lend their experience and guidance for on the job success UNIQUE A section on neurological problems accompanying specific system problems includes hot topics such as poor vision vestibular dysfunction dementia and problems with cognition and aging with a disability A problem solving approach helps you apply your knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory of neurologic rehabilitation screening and diagnostic tests treatments and interventions and the patient s psychosocial concerns Case studies use real world examples to promote problem solving skills Comprehensive coverage of neurological rehabilitation across the lifespan from pediatrics to geriatrics Terminology adheres to the best practices follows The Guide to Physical Therapy Practice and the WHO ICF World Health model NEW enhanced eBook on Student Consult UPDATED Color photos and line drawings clearly demonstrate important concepts and clinical conditions students will encounter in practice NEW and EXPANDED Additional case studies and videos illustrate how concepts apply to practice Updated chapters incorporate the latest advances and the newest information in neurological rehabilitation strategies NEW and UNIQUE New chapter on concussion has been added Separate and expanded chapters on two important topics Balance and Vestibular

Neurological Rehabilitation - E-Book Darcy Ann Umphred, Rolando T. Lazaro, Margaret Roller, Gordon Burton, 2013-08-07 Using a problem solving approach based on clinical evidence Neurological Rehabilitation 6th Edition covers the therapeutic management of people with functional movement limitations and quality of life issues following a neurological event It reviews basic theory and covers the latest screening and diagnostic tests new treatments and interventions commonly used in today s clinical practice This edition includes the latest advances in neuroscience adding new chapters on neuroimaging and clinical tools such as virtual reality robotics and gaming Written by respected clinician and physical therapy expert Darcy Umphred this classic neurology text provides problem solving strategies that are key to individualized effective care UNIQUE Emerging topics are covered in detail including chapters such as Movement Development Across the Lifespan Health and Wellness The Beginning of the Paradigm Documentation and Cardiopulmonary Interactions UNIQUE A section on neurological problems accompanying specific system problems includes hot topics such as poor vision pelvic floor dysfunction and pain A problem solving approach helps you apply your knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory of neurologic rehabilitation screening and diagnostic tests treatments and interventions and the patient s psychosocial concerns Information Case studies use real world examples to promote problem solving skills Non traditional approaches to neurological interventions in the Alternative and Complementary Therapies chapter include the movement approach energy approach and physical body system approaches therapies Terminology adheres to the best practices of the APTA as well as other leading physical therapy

organizations following The Guide to Physical Therapy Practice the Nagi model and the ICF World Health Model of patient empowerment Updated illustrations provide current visual references NEW chapters on imaging and robotics have been added Updated chapters incorporate the latest advances and the newest information in neuroscience and intervention strategies Student resources on an Evolve companion website include references with links to MEDLINE and more

Neurological Rehabilitation Darcy Ann Umphred, PT, PhD, FAPTA, Rolando T. Lazaro, PT, PhD, DPT, 2012-08-14 Using a problem solving approach based on clinical evidence Neurological Rehabilitation 6th Edition covers the therapeutic management of people with functional movement limitations and quality of life issues following a neurological event It reviews basic theory and covers the latest screening and diagnostic tests new treatments and interventions commonly used in today's clinical practice This edition includes the latest advances in neuroscience adding new chapters on neuroimaging and clinical tools such as virtual reality robotics and gaming Written by respected clinician and physical therapy expert Darcy Umphred this classic neurology text provides problem solving strategies that are key to individualized effective care UNIQUE Emerging topics are covered in detail including chapters such as Movement Development Across the Lifespan Health and Wellness The Beginning of the Paradigm Documentation and Cardiopulmonary Interactions UNIQUE A section on neurological problems accompanying specific system problems includes hot topics such as poor vision pelvic floor dysfunction and pain A problem solving approach helps you apply your knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory of neurologic rehabilitation screening and diagnostic tests treatments and interventions and the patient's psychosocial concerns Information Case studies use real world examples to promote problem solving skills Non traditional approaches to neurological interventions in the Alternative and Complementary Therapies chapter include the movement approach energy approach and physical body system approaches therapies Terminology adheres to the best practices of the APTA as well as other leading physical therapy organizations following The Guide to Physical Therapy Practice the Nagi model and the ICF World Health Model of patient empowerment Updated illustrations provide current visual references NEW chapters on imaging and robotics have been added Updated chapters incorporate the latest advances and the newest information in neuroscience and intervention strategies Student resources on an Evolve companion website include references with links to MEDLINE and more *Neurological Rehabilitation: Principles, Practices, and Innovations* Dr. Muzahid K Sheikh, 2024-03-11 Neurological Rehabilitation Principles Practice and Innovations is a comprehensive guide that highlights a multidisciplinary approach to the rehabilitation of individuals with neurological disorders Written by leading experts in the field this book serves as an indispensable resource for health care professionals researchers and students wishing to deepen their understanding of neurological rehabilitation The book begins by laying a strong foundation in the fundamental principles underlying neurological rehabilitation providing insight into neuroplasticity motor learning and functional recovery It then

moves on to explore various assessment tools and strategies for evaluating impairments and disabilities commonly associated with neurological conditions. One of the key strengths of Neurological Rehabilitation is its emphasis on evidence based practices and innovative interventions. Readers are introduced to the latest advances in technology and therapeutic approaches including robotics, virtual reality and non-invasive brain stimulation which have revolutionized the field of rehabilitation. Furthermore, the book highlights the importance of a holistic and patient-centred approach to care which addresses not only physical impairments but also cognitive, emotional and social aspects of rehabilitation. Case studies and practical examples are scattered throughout the text, offering real-world perspectives and facilitating a deeper understanding of the concepts discussed. Whether it's stroke, traumatic brain injury, spinal cord injury or neurodegenerative disease, Neurological Rehabilitation equips practitioners with the knowledge and tools necessary to optimize outcomes and enhance the quality of life of individuals living with neurological disorders. With its comprehensive coverage and emphasis on innovation, this book stands as a definitive guide in the field of neurological rehabilitation.

Handbook of neurological rehabilitation Richard J Greenwood, Thomas M Mcmillan, Michael P Barnes, Christopher D Ward, 2013

Pocketbook of Neurological Physiotherapy E-Book Maria Stokes, 2008-10-10

POCKETBOOK OF NEUROLOGICAL PHYSIOTHERAPY is designed for working with people with neurological problems in any clinical setting. Written by a team of expert contributors, it offers an international perspective on core concepts irrespective of philosophical frameworks or health care systems. Rapid access to essential information is contained in one concise volume providing expert knowledge and advice at your fingertips. This pocketbook is a valuable guide to evidence based practice for student physiotherapists and their teachers as well as qualified clinicians.

Background Knowledge including common neurological conditions, neural plasticity and common motor impairments and their impact on activity.

Clinical Decision Making including assessment and treatment of the acute patient before and during stabilisation, the acute patient with potential for recovery and the patient with degenerative disease.

Respiratory communication, cognitive and orthotic management, Medical investigations and drug treatments, A glossary of terms and abbreviations.

Neurological Rehabilitation Darcy Ann Umphred, 2006-11-10

This is a Pageburst digital textbook. Including everything from basic theories to the latest breakthroughs in screening, treatments, diagnosis and interventions. Neurological Rehabilitation 5th Edition is the classic neurology book for therapy students and clinicians alike. The book takes a problem-solving approach to the therapeutic management of movement limitations, quality of life and more. With an emphasis on real-world problem solving, case studies in every chapter show the application of concepts presented. The text also details best practices put forth by the APTA and other leading physical therapy organizations. Includes all terminology information and practices consistent with The Guide to Physical Therapy Practice. References best practices from the beginning to the end of a patient's care with information from the most evidence based research. Includes in-depth coverage with illustrations, case studies and examples to make it easier to understand complex information. Applies concepts

with case studies featured in each chapter teaching problem solving with real world examples Covers non conventional approaches to neurological interventions such as the movement approach energy approach and physical body system approaches Four new chapters highlight important topics on movement and development across the lifespan health and wellness documentation and cardiopulmonary interaction not often found in one complete resource Highlights hot button topics in physical therapy including neurological disorders and application issues such as poor vision pelvic floor dysfunction and pain A complete revision of the chapters provides the most current information and research

Neurological Rehabilitation Michael P. Barnes, David C. Good, 2013-01-10 Neurological Rehabilitation is the latest volume in the definitive Handbook of Clinical Neurology series It is the first time that this increasingly important subject has been included in the series and this reflects the growing interest and quality of scientific data on topics around neural recovery and the practical applications of new research The volume will appeal to clinicians from both neurological and rehabilitation backgrounds and contains topics of interest to all members of the multidisciplinary clinical team as well as the neuroscience community The volume is divided into five key sections The first is a summary of current research on neural repair recovery and plasticity The authors have kept the topics readable for a non scientific audience and focused on the aspects of basic neuroscience that should be most relevant to clinical practice The next section covers the basic principles of neurorehabilitation including excellent chapters on learning and skill acquisition outcome measurement and functional neuroimaging The key clinical section comes next and includes updates and reviews on the management of the main neurological disabling physical problems such as spasticity pain sexual functioning and dysphagia Cognitive emotional and behavioural problems are just as important and are covered in the next section with excellent chapters for example on memory and management of executive dysfunction The final part draws the sections on symptom management together by discussing the individual diseases that are most commonly seen in neurorehabilitation and providing an overview of the management of the disability associated with those disorders The volume is a definitive review of current neurorehabilitation practice and will be valuable to a wide range of clinicians and scientists working in this rapidly developing field A volume in the Handbook of Clinical Neurology series which has an unparalleled reputation as the world's most comprehensive source of information in neurology International list of contributors including the leading workers in the field Describes the advances which have occurred in clinical neurology and the neurosciences their impact on the understanding of neurological disorders and on patient care

Neurological Rehabilitation Tomoko Kitago, John W. Krakauer, 2013-01-10 Neurorehabilitation is based on the assumption that motor learning contributes to motor recovery after injury However little is known about how learning itself is affected by brain injury how learning mechanisms interact with spontaneous biological recovery and how best to incorporate learning principles into rehabilitation training protocols Here we distinguish between two types of motor learning adaptation and skill acquisition and discuss how they relate to neurorehabilitation Functional recovery can occur through resolution of

impairment reacquisition of premorbid movement patterns and through compensation use of alternative movements or effectors to accomplish the same goal both these forms of recovery respond to training protocols The emphasis in current neurorehabilitation practice is on the rapid establishment of independence in activities of daily living through compensatory strategies rather than on the reduction of impairment Animal models however show that after focal ischemic damage there is a brief approximately 3 4 week window of heightened plasticity which in combination with training protocols leads to large gains in motor function Analogously almost all recovery from impairment in humans occurs in the first 3 months after stroke which suggests that targeting impairment in this time window with intense motor learning protocols could lead to gains in function that are comparable in terms of effect size to those seen in animal models

Cognitive and Perceptual Rehabilitation - E-Book Glen Gillen,2008-03-20 Reflecting current practice with a renewed focus on function based assessments and evidence based interventions Cognitive and Perceptual Rehabilitation Optimizing Function includes all of the tools you need to make a positive impact on your patients lives This clinical resource summarizes highlights and constructively critiques the state of cognitive and perceptual rehabilitation This text helps you enhance your patients quality of life by promoting improved performance of necessary and meaningful activities and decreasing participation restrictions Evidence based intervention tables focus on improving daily function through proven methods Summary tables highlight each assessment s clinical utility and psychometric properties to provide you with the tools you need to choose the best assessment for each patient An entire chapter on Application of Concepts features five case studies each discussing background data and medical record review evaluation findings assessments long term goals short term goals and interventions functional activities to help you apply the theories and principles from the book to real world situations Handy learning aids including Key Terms Learning Objectives and Review Questions help you remember important information

Neurological Rehabilitation Volker Hömberg,2013-01-10 Over the last decade a dramatic change has occurred in the field of neurorehabilitation in motor recovery that is marked by three transitions first by movement away from intuitive and ideology based approaches to evidence based therapy practices second by a change from hands on treatment of patients to hands off coaching approaches by motor therapists who incorporate knowledge about motor reorganization and motor learning and finally by a transition from one on one treatments to group oriented treatments General rules such as the need for repetition feedback of results shaping task difficulty have been derived from the animal experimental and human behavioral literature and incorporated into the design of innovative treatment strategies that can be adapted to individual patients needs This chapter reviews the state of the art for most of the evidence based motor therapy concepts in the rehabilitation of patients with motor deficits after stroke traumatic brain injury etc and other conditions Treatment approaches derived from neuromodulation techniques such as stimulation or blockage of peripheral nerves noninvasive brain stimulation and pharmacological means are addressed Finally a modular concept is proposed to define optimal therapeutic

approaches according to the individual level and type of impairment

Textbook of Neural Repair and Rehabilitation: Volume 2, Medical Neurorehabilitation Michael E. Selzer, Stephanie Clarke, Leonardo G. Cohen, Gert Kwakkel, Robert H. Miller, 2014-04-24 In two freestanding volumes Textbook of Neural Repair and Rehabilitation provides comprehensive coverage of the science and practice of neurological rehabilitation Revised throughout bringing the book fully up to date this volume Medical Neurorehabilitation can stand alone as a clinical handbook for neurorehabilitation It covers the practical applications of the basic science principles presented in Volume 1 provides authoritative guidelines on the management of disabling symptoms and describes comprehensive rehabilitation approaches for the major categories of disabling neurological disorders New chapters have been added covering genetics in neurorehabilitation the rehabilitation team and the economics of neurological rehabilitation and brain stimulation along with numerous others Emphasizing the integration of basic and clinical knowledge this book and its companion are edited and written by leading international authorities Together they are an essential resource for neuroscientists and provide a foundation of the work of clinical neurorehabilitation professionals

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Neurological Rehabilitation Optimizing Motor Performance 2e Introduction

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