Neuroplasticity Exercises After Stroke

Stroke Rehabilitation
Converging Clinical and Engineering Research on Neurorehabilitation II
Stroke Recovery and Rehabilitation
Subcortical Stroke
The Brain Injury Workbook
Broken Movement
Stroke of Luck
Textbook of Neural Repair and Rehabilitation
STROKE REBEL
Neurologic Rehabilitation: Neuroscience and Neuroplasticity in Physical Therapy Practice (EB)
Cognitive Rehabilitation and Neuroimaging
Restoration of Normal Movement After Stroke
Translational Research in Traumatic Brain Injury
Textbook of Stroke Medicine
Oxford Textbook of Neurorehabilitation
Brain Repair After Stroke
Clinical Recovery from CNS Damage
Stroke Rebel
Neuroplasticity and Rehabilitation
Clinical Recovery from CNS Damage
Stroke of Luck: NOW!
Highs, Lows, and Plateaus
Science and Application of High-Intensity Interval Training
Jasper's Basic Mechanisms of the Epilepsies
Different Strokes for Different Folks
Clinical Pathways in Stroke Rehabilitation
Highs, Lows, and Plateaus
Journal
The Brain That Changes Itself
Neurorehabilitation Technology
Textbook of Neural Repair and Rehabilitation
Stronger After Stroke
Neuroplasticity and Neurorehabilitation
Plasticity in Spatial Neglect - Recovery and Rehabilitation
Neuroplasticity: Newest Guide to Working Brain Plasticity (Master Neuroplasticity for Recovery and Growth After Stroke)
My Stroke of Insight
Healing the Broken Brain
Virtual Reality for Physical and Motor Rehabilitation
Healing the Broken Brain

BRENNAN MENDEZ

Stroke Rehabilitation Oxford University Press
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.
Converging Clinical and Engineering Research on Neurorehabilitation II Brain Rehab Distribution Limited
Part of the Oxford Textbooks in Clinical Neurology series, this textbook will provide the reader with an understanding of the theoretical underpinnings of neurorehabilitation, as well as a clear idea about how (and why) to approach treatment decisions in individual patients.
Stroke Recovery and Rehabilitation Springer
Subcortical Stroke is a new and fully revised edition of Lancunar and Other Subcortical Infractions(OUP, 1995). Stroke is one of the most common causes of death and subcortical stroke accounts for 20-30% of all cerebrovascular infarcts. Our understanding of stroke processes in general, and subcortical stroke in particular, has advanced considerably in recent years. Research findings from the fields of neurochemistry, imaging and genetics have provided insight and input to our understanding of this condition, and this new edition provides an opportunity to describe these advances, and to relate the findings to the clinical expression, neural mechanism, prognosis and treatment of subcortical stroke. In addition, new subcortical syndromes such as CADASIL are covered, as is subcortical haemorrhage. This book presents a comprehensive and authoritative review of the field with contributions from the leading international experts. Subcortical Stroke is for stroke physicians, neurologists and those researching cerebrovascular diseases.
Subcortical Stroke Penguin
Volume 2 of the Textbook of Neural Repair and Rehabilitation stands alone as a clinical handbook for neurorehabilitation.
The Brain Injury Workbook Frontiers E-books
In this full-length version of the book, Bob Dennis gives the most important tips related to safety and exercise immediately following stroke, for maximal recovery. The survivor of two strokes, Bob shares his insights and experience, as a scientist and a survivor who has made and continues to make a strong recovery, in some cases better than his initial condition before having a stroke. The focus is on maximal recovery, using the easiest and most effective exercises, usually with zero equipment and at no cost.Neuroplasticity happens naturally as a result of stroke. By providing new challenges to the brain, the natural mechanisms of recovery are enhanced. To maintain novelty and sustain neuroplasticity, it is important to begin immediately after stroke, and to have access to a large range of simple, free, and easy-to-learn exercises that can be done anywhere, any time. These exercises can be used by anyone, of any age and at any time, whether or not they have had a stroke or other brain injury, to enhance and sustain neuroplasticity.This book contains enough novelty and variation in exercise and lifestyle to last a lifetime, and certainly enough to power you through a speedy recovery.
Broken Movement Cambridge University Press
This book undertakes to accomplish three tasks in bringing the world of neuroplasticity to the everyday reader and to his or her idea of improving it in a way they see fit. It shows the reader that each person has the ability to alter and adjust the shape and resistance of his or her own mind. This is powerful information because when you alter the shape of the mind, you are essentially changing your destiny. You will know more about neuroplasticity to increase brain power to succeed and your dream. So, this book is aimed to transfer you one of the simplest and most powerful tools to assemble and disassemble your life as a set of lego and give you the chance to: • Understand exactly what neuroplasticity is. • Use neuroplasticity to eliminate every negative aspect of your life. • Discover the exercises allowing you to master your brain, your body and your life. • Use neuroplasticity to succeed in everything you do. • Know the exact plan to reprogram your brain. This book contains proven steps and strategies on how to improve brain, function, memory and consciousness, which are examined through the lens of neuroscience and neuroplasticity. It contains an end-to-end analysis of strategies improving brain's functionality with respect to age, brain capacity and health.This book undertakes to accomplish three tasks in bringing the world of neuroplasticity to the everyday reader and to his or her idea of improving it in a way they see fit. It shows the reader that each person has the ability to alter and adjust the shape and resistance of his or her own mind. This is powerful information because when you alter the shape of the mind, you are essentially changing your destiny. You will know more about neuroplasticity to increase brain power to succeed and your dream. So, this book is aimed to transfer you one of the simplest and most powerful tools to assemble and disassemble your life as a set of lego and give you the chance to: • Understand exactly what neuroplasticity is. • Use neuroplasticity to eliminate every negative aspect of your life. • Discover the exercises allowing you to master your brain, your body and your life. • Use neuroplasticity to succeed in everything you do. • Know the exact plan to reprogram your brain. This book contains proven steps and strategies on how to improve brain, function, memory and consciousness, which are examined through the lens of neuroscience and neuroplasticity. It contains an end-to-end analysis of strategies improving brain's functionality with respect to age, brain capacity and health.
Stroke of Luck Springer Nature
This open access book focuses on practical clinical problems that are frequently encountered in stroke rehabilitation. Consequences of diseases, e.g. impairments and activity limitations, are addressed in rehabilitation with the overall goal to reduce disability and promote participation. Based on the available best external evidence, clinical pathways are described for stroke rehabilitation bridging the gap between clinical evidence and clinical decision-making. The clinical pathways answer the questions which rehabilitation treatment options are beneficial to overcome specific impairment constellations and activity limitations and are well acceptable to stroke survivors, as well as when and in which settings to provide rehabilitation over the course of recovery post stroke. Each chapter starts with a description of the clinical problem encountered. This is followed by a systematic, but concise review of the evidence (RCTs, systematic reviews and meta-analyses) that is relevant for clinical decision-making, and comments on assessment, therapy (training, technology, medication), and the use of technical aids as appropriate. Based on these summaries, clinical algorithms / pathways are provided and the main clinical-decision situations are portrayed. The book is invaluable for all neurorehabilitation team members, clinicians, nurses, and therapists in neurology, physical medicine and rehabilitation, and related fields. It is a World Federation for NeuroRehabilitation (WFNR) educational initiative, bridging the gap between the rapidly expanding clinical research in stroke rehabilitation and clinical practice across societies and continents. It can be used for both clinical decision-making for individuals and as well as clinical background knowledge for stroke rehabilitation service development initiatives.
Textbook of Neural Repair and Rehabilitation Demos Medical Publishing
If you're holding this book, it likely means you or someone you love has had a stroke. Dealing with the onslaught of information about stroke can be confusing and overwhelming. And if you happen to be a stroke survivor with newly impaired language skills, it can be especially hard to comprehend

everything your doctors, nurses, and specialists are telling you.This book consists of the top 100 questions that survivors and their families ask, with answers from the top physicians and therapists in the country. The questions start out basic but then get more specific to address different areas of recovery. And, for stroke survivors still struggling with reading comprehension, or for family members who are simply too tired to read long passages, there are Takeaway Pointsat the end of each chapter to help simplify everything.Includes answers to frequently asked questions such as:• What is a stroke, and who is at risk for one?• What is the best diet for a stroke survivor?• How does group therapy compare to individual therapy?• What should a stroke survivor look for in a therapist?• How long will it take to recover, and how can stroke survivors maximize their recovery?• What can someone do to prevent having another stroke?In this book, you'll gain a wealth of information, inspiration, advice, and support as you navigate your journey through stroke recovery.
STROKE REBEL Karger Medical and Scientific Publishers
A Doody's Core Title 2012 Stroke Recovery and Rehabilitation is the new gold standard comprehensive guide to the management of stroke patients. Beginning with detailed information on risk factors, epidemiology, prevention, and neurophysiology, the book details the acute and long-term treatment of all stroke-related impairments and complications. Additional sections discuss psychological issues, outcomes, community reintegration, and new research. Written by dozens of acknowledged leaders in the field, and containing hundreds of tables, graphs, and photographic images, Stroke Recovery and Rehabilitation features: The first full-length discussion of the most commonly-encountered component of neurorehabilitation Multi-specialty coverage of issues in rehabilitation, neurology, PT, OT, speech therapy, and nursing Focus on therapeutic management of stroke related impairments and complications An international perspective from dozens of foremost authorities on stroke Cutting edge, practical information on new developments and research trends Stroke Recovery and Rehabilitation is a valuable reference for clinicians and academics in rehabilitation and neurology, and professionals in all disciplines who serve the needs of stroke survivors.
Neurologic Rehabilitation: Neuroscience and Neuroplasticity in Physical Therapy Practice (EB) Kelly Roache
After decades of focusing on how to alleviate and prevent recurrence of acute CNS injuries, the emphasis has finally shifted towards repairing such devastating events and rehabilitation. This development has been made possible by substantial progress in understanding the scientific underpinnings of recovery as well as by novel diagnostic tools, and most importantly, by emerging therapies awaiting clinical trials. In this publication, several international experts introduce novel areas of neurological reorganization and repair following CNS damage. Principles and methods to monitor and augment neuroplasticity are explored in depth and supplemented by a critical appraisal of neurological repair mechanisms and possibilities to curtail disability using computer or robotic interfaces. Rather than providing a textbook approach of CNS restoration, the editors selected topics where progress is most imminent in this labyrinthine domain of medicine. Moreover, the varied background and origins of the contributors lend this book a truly global perspective on the current state of affairs in neurological recovery.
Cognitive Rehabilitation and Neuroimaging Human Kinetics
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.
Restoration of Normal Movement After Stroke Oxford University Press
An account of the neurobiology of motor recovery in the arm and hand after stroke by two experts in the field. Stroke is a leading cause of disability in adults and recovery is often difficult, with existing rehabilitation therapies largely ineffective. In Broken Movement, John Krakauer and S. Thomas Carmichael, both experts in the field, provide an account of the neurobiology of motor recovery in the arm and hand after stroke. They cover topics that range from behavior to physiology to cellular and molecular biology. Broken Movement is the only accessible single-volume work that covers motor control and motor learning as they apply to stroke recovery and combines them with motor cortical physiology and molecular biology. The authors cast a critical eye at current frameworks and practices, offer new recommendations for promoting recovery, and propose new research directions for the study of brain repair. Krakauer and Carmichael discuss such subjects as the behavioral phenotype of hand and arm paresis in human and non-human primates; the physiology and anatomy of the motor system after stroke; mechanisms of spontaneous recovery; the time course of early recovery; the challenges of chronic stroke; and pharmacological and stem cell therapies. They argue for a new approach in which patients are subjected to higher doses and intensities of rehabilitation in a more dynamic and enriching environment early after stroke. Finally they review the potential of four areas to improve motor recovery: video gaming and virtual reality, invasive brain stimulation, re-opening the sensitive period after stroke, and the application of precision medicine.
Translational Research in Traumatic Brain Injury CRC Press
Increasing evidence identifies the possibility of restoring function to the damaged brain via exogenous therapies. One major target for these advances is stroke, where most patients can be left with significant disability. Treatments have the potential to improve the victim's quality of life significantly and reduce the time and expense of rehabilitation. Brain Repair After Stroke reviews the biology of spontaneous brain repair after stroke in animal models and in humans. Detailed chapters cover the many forms of therapy being explored to promote brain repair and consider clinical trial issues in this context. This book provides a summary of the neurobiology of innate and treatment-induced repair mechanisms after hypoxia and reviews the state of the art for human therapeutics in relation to promoting behavioral recovery after stroke. Essential reading for stroke physicians, neurologists, rehabilitation physicians and neuropsychologists.
Textbook of Stroke Medicine Author House
Dr. Mike Dow is a best-selling author, psychotherapist, and relationship expert. So why is he writing a book about stroke? Well, what you probably don't know about Dr. Mike is that his younger brother, David, is a stroke survivor. What's more, David's stroke happened when he only 10 years old. This means most of Dr. Mike's teenage years were spent witnessing what his family was dealing with trying to find the best treatments for David. He struggled to know what to do to help his brother. He watched helplessly as his brother wrestled with depression, trying to find the motivation to recover on top of the challenges of adolescence. He mourned the loss of what could have been —and he was angry. How his family would have loved to sit down with top experts in stroke to find out what they should be doing and have their questions answered. Now Dr. Mike has the ability to do just that, and he's doing it so that others in his family's position don't have the same struggle. Armed with questions from stroke survivors and their loved ones, Dr. Mike talks with the best clinicians across the country to get over 100 answers you need to know to maximize your recovery.
Oxford Textbook of Neurorehabilitation Springer Nature
Brain plasticity is the focus of a growing body of research with significant implications for neurorehabilitation. This state-of-the-art volume explores ways in which brain-injured individuals may be helped not only to compensate for their loss of cognitive abilities, but also possibly to restore those abilities. Expert contributors examine the extent to which damaged cortical regions can actually recover and resume previous functions, as well as how intact regions are recruited to take on tasks once mediated by the damaged region. Evidence-based rehabilitation approaches are reviewed for a range of impairments and clinical populations, including both children and adults.
Brain Repair After Stroke Guilford Press
Nothing provided
Clinical Recovery from CNS Damage Hay House, Inc
"This book show how an entrepreneur and former model is fighting her way back to living life successfully after a massive stroke at a young age. Linda's story serves as a blueprint and source of realistic hope for stroke survivors."--Page 4 of cover.
Stroke Rebel McGraw Hill Professional
A compilation of innovative findings and new directions in neurological recovery After decades of focusing on how to alleviate and prevent recurrence of acute CNS injuries, the emphasis has finally shifted towards repairing such devastating events and rehabilitation. This development has been made possible by substantial progress in understanding the scientific underpinnings of recovery as well as by novel diagnostic tools, and most importantly, by emerging therapies awaiting clinical trials. In this publication, several international experts introduce novel areas of neurological reorganization and repair following CNS damage. Principles and methods to monitor and augment neuroplasticity are explored in depth and supplemented by a critical appraisal of neurological repair mechanisms and possibilities to curtail disability using computer or robotic interfaces. Rather than providing a textbook approach of CNS restoration, the editors selected topics where progress is most imminent in this labyrinthine domain of medicine. Moreover, the varied background and origins of the contributors lend this book a truly global perspective on the current state of affairs in neurological recovery.
Neuroplasticity and Rehabilitation Penguin
This revised, updated, and substantially expanded third edition provides an accessible, practical overview of major areas of research, technical development and clinical application in the field of neurorehabilitation movement therapy. The initial section provides the basic framework and a rationale for technology application in movement therapy by summarizing recent findings in neuroplasticity and motor learning. The following section provides a detailed overview of the movement physiology of various neurologic conditions, illustrating how this knowledge has been used to design various neurorehabilitation technologies. The third section then explains the principles of human-machine interaction for movement rehabilitation. The fourth section provides an overview of assessment technology and predictive modeling in neurorehabilitation. The fifth section provides a survey of technological approaches to neurorehabilitation, including spinal cord stimulation, functional electrical stimulation, virtual reality, wearable sensing, brain computer interfaces, mobile technologies, and telerehabilitation. The final two sections examine in greater detail the ongoing revolution in robotic therapy for upper extremity movement and walking, respectively. The promises and limitations of these technologies in neurorehabilitation are discussed, including an Epilogue which debates the impact and utility of robotics for neurorehabilitation. Throughout the book the chapters provide detailed practical information on state-of-the-art clinical applications of these devices following stroke, spinal cord injury, and other neurologic disorders and future developments in the field. The text is illustrated throughout with photographs and schematic diagrams which serve to clarify the information for the reader. Neurorehabilitation Technology, Third Edition is a valuable resource for neurologists, biomedical engineers, roboticists, rehabilitation specialists, physiotherapists, occupational therapists and those training in these fields. Chapter "Spinal Cord Stimulation to Enable Leg Motor Control and Walking in People with Spinal Cord Injury is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
Clinical Recovery from CNS Damage Springer Nature
The book reports on advanced topics in the areas of neurorehabilitation research and practice. It focuses on new methods for interfacing the human nervous system with electronic and mechatronic systems to restore or compensate impaired neural functions. Importantly, the book merges different perspectives, such as the clinical, neurophysiological, and bioengineering ones, to promote, feed and encourage collaborations between clinicians, neuroscientists and engineers. Based on the 2016 International Conference on Neurorehabilitation (ICNR 2016) held on October 18-21, 2016, in Segovia, Spain, this book covers various aspects of neurorehabilitation research and practice, including new insights into biomechanics, brain physiology, neuroplasticity, and brain damages and diseases, as well as innovative methods and technologies for studying and/or recovering brain function, from data mining to interface technologies and neuroprosthetics. In this way, it offers a concise, yet comprehensive reference guide to neurosurgeons, rehabilitation physicians, neurologists, and bioengineers. Moreover, by highlighting current challenges in understanding brain diseases as well as in the available technologies and their implementation, the book is also expected to foster new collaborations between the different groups, thus stimulating new ideas and research directions.