Lipidomics is an important aspect of personalized medicine in relation to nutrition and metabolism. This approach has become important due to the substantial presence of nutraceuticals in the market, since it gives personalized criteria on how to choose the right nutraceutical strategy for both prevention and for quality of life. This multi-disciplinary textbook uses a simple and practical approach to provide a comprehensive overview of lipidomics and their connection with health and nutrition. The text is divided into two parts:

- Part 1 outlines the basics of lipidomics and focuses on the biochemical and nutritional aspects with descriptions of the analytical methods employed for the examination of cell membrane fatty acid composition.
- Part 2 familiarizes the reader with the use of membrane lipidomic diagnostics in practical health care, using health conditions as examples to introduce the concept of lipidomic profiles in different physiological and pathological situations including prevention.

Through the various properties of membrane lipidomics, readers will be able to combine the molecular status of the cell membrane with the evaluation of the subject for personalized nutritional and nutraceutical strategies. Membrane Lipidomics for Personalized Health will be beneficial to biologists, biochemists and medical researchers, as well as health care professionals, pharmacists, and nutritionists seeking in-depth information on the topic.

Perform nursing procedures safely and accurately, with the freshly updated Nursing Procedures Made Incredibly Easy, Second Edition. Written in the popular, lighthearted Incredibly Easy style, this comprehensive guide offers expert, step-by-step direction on a broad range of fundamental and system-based nursing procedures. This enjoyable way to learn nursing’s best practices will help you stay up-to-date with the latest in technology, nursing standards, NCLEX preparation, and safe, quality care.
Elite sport organisations should deliver integrated care and preparation of the athlete or sportsperson, combining best practice in sports medicine and physical therapy with training and conditioning techniques based on cutting edge sport science. In this ground-breaking new book, leading sports injury and rehabilitation professionals and sport scientists show how this integrated model should work in practice across the full spectrum of athlete care, including the prevention of sports injury, assessment and treatment of injury, and the design and implementation of effective rehabilitation programmes.

Neuroscience for Addiction Medicine: From Prevention to Rehabilitation - Constructs and Drugs, Volume 223 (Progress in Brain Research) 1st Edition
by Hamed Ekhtiari (Editor), Martin Paulus (Editor)

Neuroscience for Addiction Medicine: From Prevention to Rehabilitation - Constructs and Drugs is the latest volume from Progress in Brain Research focusing on new trends and developments in addiction research. This established international series examines major areas of basic and clinical research within neuroscience, as well as popular emerging subfields such as addiction. This volume takes an integrated approach to review and summarize some of the most recent progress from the subfield of addiction research, with particular emphasis on potential applications in a clinical setting.
Elite sport organisations should deliver integrated care and preparation of the athlete or sportsperson, combining best practice in sports medicine and physical therapy with training and conditioning techniques based on cutting edge sport science. In this ground-breaking new book, leading sports injury and rehabilitation professionals and sport scientists show how this integrated model should work in practice across the full spectrum of athlete care, including the prevention of sports injury, assessment and treatment of injury, and the design and implementation of effective rehabilitation programmes.

Mild Traumatic Brain Injury Rehabilitation Toolkit (Textbooks of Military Medicine) Spiral-bound – March 18, 2015
by Margaret Weightman PhD (Author), Mary Vining Radomski Ph.D. (Author)

Traumatic brain injury (TBI) is a complex condition for which limited research exists. The recent conflicts in Iraq and Afghanistan have resulted in numerous service members returning home after sustaining TBI, and healthcare providers scrambling to find resources on how to treat them. This toolkit is a comprehensive source of inventories and therapy options for treating service members with mild TBI. All aspects of mild TBI are covered, including vestibular disorders, vision impairment, balance issues, posttraumatic headache, temporomandibular dysfunction, cognition, and fitness, among others. With easy-to-follow treatment options and evaluation instruments, this toolkit is a one-stop resource for clinicians and therapists working with patients with mild TBI.
Rehabilitation continues to attract considerable attention as a key response to people caught in cycles of crime and addiction. Yet not enough is known about the cultures and conditions in which rehabilitation practices and processes occur, or how different workers support individuals towards recovery and desistance. Away from the dominant focus on the subjects of rehabilitation, closer examination of practitioner discourses and workforce data exposes some troubling trends. Why is it that significant numbers of practitioners are leaving the alcohol and other drugs field, while disproportionate numbers of criminal justice practitioners are on leave?

Neurologic Rehabilitation: Neuroscience and Neuroplasticity in Physical Therapy Practice
1st Edition
by Deborah S. Nichols Larsen (Author), Deborah K. Kegelmeyer (Author), John A. Buford (Author), Anne D. Kloos (Author), Jill C. Heathcock (Author), D. Michele Basso (Author)

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.
by Daniel Alam MD (Author)

Product Details
Series: The Clinics: Surgery
Hardcover
Publisher: Elsevier (March 13, 2016)
Language: English
ISBN-10: 0323416861

Repair and restoration of the facial nerve takes exceptional skill in facial anatomy and surgery. In this issue of Facial Plastic Surgery Clinics, surgeon and academician Daniel Alam leads discussion by expert surgeons of topics such as Bell's Palsy, Botox in the treatment of facial paralysis; Management of the eye in facial paralysis; Static slings; Temporalis tendon transfer; Nerve transfer; Gracilis flaps; Sternohyoid flaps, New technologies in facial paralysis; and Physical therapy for facial rehabilitation. Each discussion includes diagnosis and procedural steps for best outcomes for function and cosmesis.

by Michael Fredericson MD (Author)

Product Details
Series: The Clinics: Orthopedics
Hardcover
Publisher: Elsevier (March 13, 2016)
Language: English
ISBN-10: 0323417108

Physical medicine and rehabilitation (PM&R) physicians across the country see injured runners every day. Running injuries may impact other areas of the body and PM&R physicians are trained to treat the body as a whole, as opposed to treating just the injury, they work to identify the true source of the problem and develop a training or rehabilitation program to solve it.
by Shane (S.Q.) Xie (Author)

Product Details
Series: Springer Tracts in Advanced Robotics (Book 108)
Hardcover: 343 pages
Language: English
ISBN-10: 3319198955

Focusing on the key technologies in developing robots for a wide range of medical rehabilitation activities – which will include robotics basics, modelling and control, biomechanics modelling, rehabilitation strategies, robot assistance, clinical setup/implementation as well as neural and muscular interfaces for rehabilitation robot control – this book is split into two parts; a review of the current state of the art, and recent advances in robotics for medical rehabilitation. Both parts will include five sections for the five key areas in rehabilitation robotics: (i) the upper limb; (ii) lower limb for gait rehabilitation (iii) hand, finger and wrist; (iv) ankle for strains and sprains; and (v) the use of EEG and EMG to create interfaces between the neurological and muscular functions of the patients and the rehabilitation robots.

by Giovanni Di Giacomo (Editor), Silvia Bellachioma (Editor)

Product Details
Hardcover: 190 pages
Publisher: Springer; 1st ed. 2016 edition (November 30, 2015)
Language: English
ISBN-10: 3319248545

This book aims to equip physiotherapists rehabilitation specialists and orthopedics to provide the best possible care for patients who have undergone surgery for a range of the more common shoulder pathologies, including fractures of the proximal third of the humerus, arthritis and prosthesis of glenohumeral joint, glenohumeral instability, rotator cuff lesions, other athletic injuries of the shoulder. It does so by presenting information on various aspects of the conditions and their surgical treatment and explaining clearly how these are directly relevant to rehabilitation. Among the topics covered are functional anatomy, imaging, treatment indications, surgical techniques and materials, peri- and postoperative complications, and communication with the patient. The book will promote effective teamwork, conducted using the same language, between the surgeon and the rehabilitator, and will facilitate the development and implementation of a rehabilitation program that has the best chance of effecting a speedy and complete recovery in each individual case.
Better patient management starts with better documentation! Documentation for Rehabilitation: A Guide to Clinical Decision Making in Physical Therapy, 3rd Edition shows how to accurately document treatment progress and patient outcomes. Designed for use by rehabilitation professionals, documentation guidelines are easily adaptable to different practice settings and patient populations. Realistic examples and practice exercises reinforce concepts and encourage you to apply what you’ve learned. Written by expert physical therapy educators Lori Quinn and James Gordon, this book will improve your skills in both documentation and clinical reasoning.

This book constitutes the thoroughly refereed proceedings of the second International Workshop on ICTs for Improving Patients Rehabilitation Research Techniques, REHAB 2014, held in Oldenburg, Germany, in May 2014. The 26 revised full papers presented were carefully reviewed and selected from 69 submissions. The papers focus on virtual and enhanced environments such as motor rehabilitation; neuroimaging in rehabilitation; virtual rehabilitation; clinical assessment; cognitive rehabilitation; communication and language; ambisonics and audio environments; haptic devices; sensory impairment; medical systems; input devices; sensors and actuators; multi-user systems for user interaction; computer access; virtual humans; balance, posture and mobility; communications aids; tools for architectural/CAD design; product design, testing and prototyping; training tools for rehabilitation; augmented reality applications; human factors; rehabilitation robotics.
Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation 2nd ed. 2015 Edition  
by Mahmut Nedim Doral (Editor), Jon Karlsson (Editor)

Product Details  
Hardcover: 3330 pages  
Publisher: Springer; 2nd ed. 2015 edition (September 17, 2015)  
Language: English  
ISBN-10: 364236568X  
Price: $799.00

Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation covers the whole field of sports injuries and is an up-to-date guide for the diagnosis and treatment of the full range of sports injuries. The work pays detailed attention to biomechanics and injury prevention, examines the emerging treatment role of current strategies and evaluates sports injuries of each part of musculoskeletal system. In addition, pediatric sports injuries, extreme sports injuries, the role of physiotherapy, and future developments are extensively discussed. All those who are involved in the care of patients with sports injuries will find this textbook to be an invaluable, comprehensive, and up-to-date reference.

Rehabilitation Research: Principles and Applications, 5e 5th Edition  
by Russell Carter EdD PT (Author), Jay Lubinsky PhD CCC-A/SLP (Author)

Product Details  
Paperback: 512 pages  
Publisher: Saunders; 5 edition (August 3, 2015)  
Language: English  
ISBN-10: 1455759791  
Price: $78.95

Find out how to use evidence to improve your practice! Thoroughly covering the full range of rehabilitation research with a clear, easy-to-understand approach, Rehabilitation Research: Principles and Applications, 5th Edition will help you analyze and apply research to practice. It examines traditional experimental designs as well as nonexperimental and emerging approaches, including qualitative research, single-subject designs, outcomes research, and survey research. Ideal for students and practitioners in physical therapy, occupational therapy, and communication sciences and disorders, this user-friendly resource emphasizes evidence-based practice and the development of true scientist-practitioners.
Braddom's Physical Medicine and Rehabilitation, 5e 5th Edition  
by David X. Cifu MD (Author)

Product Details  
Hardcover: 1232 pages  
Publisher: Elsevier; 5 edition (September 3, 2015)  
Language: English  
ISBN-10: 0323280463  

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.

Modern Stroke Rehabilitation through e-Health-based Entertainment 1st ed. 2015 Edition  
by Emmanouela Vogiatzaki (Editor), Artur Krukowski (Editor)

Product Details  
Hardcover: 324 pages  
Publisher: Springer; 1st ed. 2015 edition (September 11, 2015)  
Language: English  
ISBN-10: 3319212923  

This book describes a new, “e-Health” approach to stroke rehabilitation. The authors propose an alternative approach that combines state of the art ICT technologies ranging from Augmented and Virtual Reality gaming environments to latest advances in immersive user interfaces for delivering a mixed-reality training platform, along with advanced embedded micro sensing and computing devices exhibiting enhanced power autonomy by using the latest Bluetooth Smart communication interfaces and energy saving approaches. These technologies are integrated under the umbrella of an online Personal Health Record (PHR) services allowing for delivery of personalized, patient-centric medical services whether at home, in a clinic or on the move.
**Behavourial Approaches in Neuropsychological Rehabilitation: Optimising Rehabilitation Procedures**  
by Barbara A. Wilson (Author), Camilla M. Herbert (Author)

The potential of behavioural approaches for improving the lives of people with acquired brain injury is immense. Here that potential is laid out and explored with a thoroughgoing regard for clinical practice and the theoretical frameworks that underpin that practice. This book will prove an invaluable resource for clinical psychologists and the whole range of therapists working with patients suffering from acquired brain damage.

**The Self and Identity in Rehabilitation: A Special Issue of Neuropsychological Rehabilitation**  
by Fergus Gracey (Editor), Tamara Ownsworth (Editor)

This special issue brings together developments in neurological, psychological and social understanding of sense of self and identity in neuropsychological rehabilitation. Following brain injury and in the context of neurological illness, both the individual and their loved ones report changes in personality, sense of self or identity. This issue is intended to be a key resource for clinicians trying to tackle these challenges, as well as researchers interested in the self and identity in clinical populations. New theoretical perspectives on the self, as well as quantitative and qualitative research studies, and clinical and service issues are covered.
The work of a sports therapist is highly technical and requires a confident, responsible and professional approach. The Routledge Handbook of Sports Therapy, Injury Assessment and Rehabilitation is a comprehensive and authoritative reference for those studying or working in this field and is the first book to comprehensively cover all of the following areas.

**Therapeutic Assessment and Intervention in Childcare Legal Proceedings: Engaging families in successful rehabilitation (Explorations in Mental Health)**

by Mike Davies (Author)

This book draws upon the author’s first-hand clinical experience as an Expert Witness in child and family legal proceedings to explore the success of psychotherapy assessments and interventions. Focusing on families who are seeking to be re-united after the removal of their children into foster care, Mike Davies discusses critical aspects of therapy which can help to identify and engage those who will benefit from additional support.

Chapters combine heuristic, case studies, and narrative research methodologies, considering parents’ stories, self-identity issues and assessment criteria, to uncover an emerging framework that illuminates an innovative therapeutic approach. Divided into three parts, the book develops a comprehensive overview of and thorough investigation into therapeutic assessment during childcare legal proceedings, including explorations into crucial issues such as how and why some families are granted therapeutic intervention, as well as the level of understanding and expertise that professionals and local services can provide in these contexts.
Starting from the pathophysiology of stroke and spinal cord injury and the anatomical context of the brain and spinal cord, this book describes the changes, complications, systemic involvement, medical and surgical management of stroke and spinal injury patients. It focuses not only on the neuromuscular rehabilitation but also discusses multi-system rehabilitation management. With an international author group with vast collective experience in the field, the book examines secondary changes and involvements like urological, GI, cognitive, respiratory, speech & language and occupational and incorporates recent advances in Western spinal cord injury and stroke rehabilitation science, along with global perspectives.

**Neuropsychological rehabilitation of childhood brain injury: A Practical Guide 1st Edition**
by Jonathan Reed (Editor), Katie Byard (Editor), Howard Fine (Editor)

Increasing numbers of children and young people are surviving road traffic accidents and birth complications but are being left with neurological disability. Although a brain injury can be a potentially devastating childhood medical condition Neuropsychological rehabilitation of childhood brain injury explores the developing field of neuropsychology to aid rehabilitation. The book brings together contributions from leading international clinicians and researchers to describe not only what we understand about childhood brain injury but also what has been demonstrated to help and possible innovative directions that can be taken in the future. By including a comprehensive review of the neuropsychological consequences of child brain injury alongside solid research outcomes this book provides an authoritative guide on how to help children with brain injury using neuropsychology.
The Fourth International Conference on Concrete Repair, Rehabilitation and Retrofitting (ICCRRR 2015) was held 5-7 October 2015 in Leipzig, Germany. This conference is a collaborative venture by researchers from the South African Research Programme in Concrete Materials (based at the Universities of Cape Town and The Witwatersrand) and the Material Science Group at Leipzig University and The Leipzig Institute for Materials Research and Testing (MFPA) in Germany.

**Concrete Repair, Rehabilitation and Retrofitting IV: 4th International Conference on Concrete Repair, Rehabilitation and Retrofitting (ICCRRR-4), 5-7 October 2015, Leipzig, Germany**

by Frank Dehn (Editor), Hans-Dieter Beushausen (Editor), Mark G Alexander (Editor), Pilate Moyo

**Product Details**
Hardcover: 244 pages
Publisher: CRC Press (September 17, 2015)
Language: English
ISBN-10: 1138028436

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Learn to confidently manage the growing number of stroke rehabilitation clients with Gillen’s Stroke Rehabilitation: A Function-Based Approach, 4th Edition. Using a holistic and multidisciplinary approach, this text remains the only comprehensive, evidence-based stroke rehabilitation resource for occupational therapists. The new edition has been extensively updated with the latest information, along with more evidence-based research added to every chapter. As with previous editions, this comprehensive reference uses an application-based method that integrates background medical information, samples of functionally based evaluations, and current treatment techniques and intervention strategies.

**Stroke Rehabilitation: A Function-Based Approach, 4e 4th Edition**

by Glen Gillen  (Author)
The flailing structure of FATA is mostly attributed to the state’s lack of response to the problems of FATA. It has almost been 14 years since the War on Terrorism was initiated but the state has remained unable to formulate counter terrorism initiatives and rehabilitation programs that could help to reintegrate the area and the tribes into the mainstream Pakistan. It is also important to note that FATA demands rigorous reformation in political, economic and social sense. The political leadership and the military must work together for the development of FATA. It can only be done when there will be a comprehensive plan put forth by the state authorities. The political will to reintegrate the locals and the area into mainstream Pakistan is of utmost importance. To ensure democracy, development and security in the region, the state needs to take active action. The rehabilitation program needs to be initiated with zeal and zest. The locals of the Tribal Area must be engaged in the peacebuilding process in the region because not only they know the area well but also requires state attention to ensure sustainable peace and security.

Alternative Offender Rehabilitation and Social Justice addresses the contentious issue of how to improve rehabilitation in the criminal justice system. The contributors demonstrate that although there may be implementation challenges, alternative approaches to rehabilitation can succeed in developing pro-social attitudes and in improving mental, physical and spiritual health among youth and adult criminal offenders. A central theme throughout the book is the use of mindfulness as a foundational tool of self-reflexivity in both arts and physical engagement programming. Whether they include meditation, yoga, capoeira, drama, or creative writing, alternative rehabilitation programs give offenders an outlet for creative expression and therapy. The contributing authors explore the theoretical basis, mechanisms of implementation, benefits and drawbacks of a range of alternative rehabilitation modalities and challenge all to re-think social justice for offenders.