

Orthotics And Prosthetics In Rehabilitation

Psychoprosthetics is defined as the study of psychological aspects of prosthetic use and of rehabilitative processes in those conditions that require the use of prosthetic devices. Psychoprosthetics: State of the Knowledge brings together, into one easily accessible volume, the most recent and exciting research and knowledge in this new field

Gain a strong foundation in the field of orthotics and prosthetics! Orthotics and Prosthetics in Rehabilitation,

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4th Edition is a clear, comprehensive, one-stop resource for clinically relevant rehabilitation information and application. Divided into three sections, this text gives you a foundation in orthotics and prosthetics, clinical applications when working with typical and special populations, and an overview of amputation and prosthetic limbs. This edition has been updated with coverage of the latest technology and materials in the field, new evidence on effectiveness and efficacy of interventions and cognitive workload associated usage along with enhanced color photographs and case studies - it's a great resource for students and rehabilitation professionals alike. Comprehensive coverage addresses

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rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Book organized into three parts corresponding with typical patient problems and clinical decision-making. The latest evidence-based research throughout text help you learn clinical-decision making skills. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision-making and evidence-based practice. World Health Organization disablement model (ICF) incorporated to help you learn how to match patient's limitations with the best clinical treatment. Multidisciplinary approach in a variety of settings demonstrates how physical therapists

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can work with the rest of the healthcare team to provide high quality care in orthotic/prosthetic rehabilitation. The latest equipment and technology throughout text addresses the latest options in prosthetics and orthotics rehabilitation Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. A wealth of tables and boxes highlight vital information for quick reference and ease of use. NEW! Color photographs improve visual appeal and facilitates learning. NEW! Increased evidence-based content includes updated citations; coverage of new technology such as microprocessors, microcontrollers, and integrated load cells; new evidence on the effectiveness

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and efficacy of interventions; and new evidence on cognitive workload usage. NEW! Authors Kevin K Chui, PT, DPT, PhD, GCS, OCS, CEEAA, FAAOMPT and Sheng-Che (Steven) Yen, PT, PhD add their expertise to an already impressive list of contributors.

Advances in the material sciences, 3D printing technology, functional electrical stimulation, smart devices and apps, FES technology, sensors and microprocessor technologies, and more have lately transformed the field of orthotics, making the prescription of these devices more complex than ever before. Atlas of Orthoses and Assistive Devices, 5th Edition, brings you completely up to date with these changes, helping

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physiatrists, orthopaedic surgeons, prosthetists, orthotists, and other rehabilitative specialists work together to select the appropriate orthotic device for optimal results in every patient.

Dr Jan Veneman is employed by Hocoma AG. All other Topic Editors declare no competing interests with regards to the Research Topic subject.

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Ebook on Vitalsource Access Code

Lower-limb Prosthetics

Clinical Concepts

Trauma Rehabilitation

The APRN and PA's Complete Guide to Prescribing

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Drug Therapy 2020

This volume provides a fundamental approach to the clinical practice of providing quality care to patients needing prosthetics and/or orthotics. The text discusses the most common problems, devices and strategies available for optimal care. Topics covered include: Methods, Materials, and Mechanics; Biomechanics of the Lower Limb; Above- and Below-Knee Amputations and Prostheses; Hip Disarticulation and Amputation; Lower Limb Orthotics; Upper-Extremity Prosthetics and Orthotics; Juvenile Amputees; and Spinal Orthotics. For certified prosthetists and

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orthotists in clinical service.

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.

Newly available after being out of print for several years, this is the definitive reference on the surgical and prosthetic management of acquired or congenital limb loss. Covers indications for amputation vs. limb salvage for trauma, peripheral vascular disease, and tumours; indications for prostheses for amputation levels; and rehabilitation approaches.

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Written by psychiatrists, prosthetics, and therapists at the University of Michigan, this clinically oriented text is designed for busy practitioners managing patients with limb loss who are candidates for, or are undergoing, prosthetic restoration. The goal is to provide an illustrated, state-of-the-art overview of the science and practice of post-amputation care, prosthetic restoration, and functional rehabilitation that maximizes patient independence and quality of life. The text addresses practical questions and problems, such as how to design a care plan or select the best

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prosthesis for a patient to align with expected activity level or demographic, and is intended as a ready reference to support clinical decision making. The book covers both lower and upper extremity restoration and rehabilitation.

Beginning with basic anatomy and kinesiology and a brief recap of surgical principles and post-operative care for amputees, chapters in each section discuss biomechanics, clinical assessment, prosthetic options, writing a complete and detailed prescription for the prosthesis, restoration and management of specific problems by region, and rehabilitation

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programs and strategies. Common medical issues such as phantom limb sensation and pain, skin problems, and psychological considerations are discussed as well. Prosthetic restoration for special populations and prostheses for sports and recreation are treated in a dedicated section at the end of the book. Chapters will be written in outline format and feature lots of diagrams, photos, and other illustrations for ease of use. Each chapter will conclude with 1-2 case scenarios and 5-8 multiple choice questions with answers and explanations for self-study purposes. Rehabilitation in World War I America

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Biomechanics of Lower Limb Prosthetics
Prosthetics & Orthotics in Clinical Practice
Lower Limb and Spinal

Essential Physical Medicine and Rehabilitation

Whether you are a student or a clinician, if you work with patients with neuromuscular and musculoskeletal impairments, you will find this text supplies a strong foundation in and appreciation for the field of orthotics and prosthetics that will give you the critical skills you need when working with this unique client population. With US soldiers stationed around the world and engaged in multiple conflicts, Americans will be forced for the foreseeable future to come to terms with those

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permanently disabled in battle. At the moment, we accept rehabilitation as the proper social and cultural response to the wounded, swiftly returning injured combatants to their civilian lives. But this was not always the case, as Beth Linker reveals in her provocative new book, *War's Waste*. Linker explains how, before entering World War I, the United States sought a way to avoid the enormous cost of providing injured soldiers with pensions, which it had done since the Revolutionary War. Emboldened by their faith in the new social and medical sciences, reformers pushed rehabilitation as a means to "rebuild" disabled soldiers, relieving the nation of a monetary burden and easing the decision to enter the Great War. Linker's narrative moves from the professional

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development of orthopedic surgeons and physical therapists to the curative workshops, or hospital spaces where disabled soldiers learned how to repair automobiles as well as their own artificial limbs. The story culminates in the postwar establishment of the Veterans Administration, one of the greatest legacies to come out of the First World War.

Improve your understanding of the cardiopulmonary system with *Essentials of Cardiopulmonary Physical Therapy, 4th Edition*. Based on best practices prescribed in *The Guide to Physical Therapist Practice*, this new edition provides comprehensive coverage of anatomy, physiology, and cardiopulmonary assessment, along with expanded chapters on the growing topics of early

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mobilization of the ICU patient and acute care management. Using a practical approach, expert author Ellen Hillegass also discusses pathophysiology, pharmacology, and interventions in the outpatient setting. Evidence-based content reflects the latest research in the field and incorporates the use of ICF. Material uses best practices defined by the American Physical Therapy Association. Clinical tips give you real-world hints and suggestions from practicing clinicians. NEW! Expanded chapters cover early mobilization of the ICU patient and acute care management. NEW! Updated references emphasize evidence-based information from the text. NEW! Full-color printing enhances text. This "expert piece of journalism by a brave man about

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brave men" follows three soldiers and a reporter through eighteen months on Ward 57, Walter Reed's amputee wing (The Washington Post) Time magazine's Michael Weisskopf was riding through Baghdad in the back of a U.S. Army Humvee when he heard a metallic thunk. Looking down, he spotted a small object inches from his feet and reached down to take it in his hand. Then everything went black. Weisskopf lost his hand and was sent to Ward 57 at Walter Reed Medical Center, the wing reserved for amputees. There he met soldiers Pete Damon, Luis Rodriguez, and Bobby Isaacs, alongside whom he navigated the bewildering process of recovery and began reconciling life before that day in Baghdad with everything that would follow his release. Blood

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Brothers is the story of this difficult passage—a story that begins with healthy men heading off to war, and continues through the months in Ward 57 as they prepare for a different life than the one they left. A chronicle of devastation and recovery, this is a deeply affecting portrait of the private aftermath of combat casualties.

Prosthetic Restoration and Rehabilitation of the Upper and Lower Extremity

Lower-limb Prosthetics and Orthotics

Among the Soldiers of Ward 57

AAOS Atlas of Orthoses and Assistive Devices E-Book

Blood Brothers

Covering both upper and lower extremity prosthetics, this book

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provides the information clinicians need to manage a range of prosthetic patients, and their disorders. The authors cover practical solutions to everyday problems that clinicians encounter, from early prosthetic management to issues facing the more advanced prosthetic user. The text is broken down into four sections encompassing the range of subjects that confront practitioners, including Early Management; Rehabilitation of Patients with Lower Limb Amputation; Rehabilitation of Patients with Upper Limb Amputations; and Beyond the Basics, which includes special considerations for children and futuristic concepts.

Includes more than 30 new diagnoses and eBook with digital updates as needed! Updated to deliver the most current standards, this is a unique prescribing reference for APRN students and advanced health care providers in all practice settings who need guidance on

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prescribing drugs for patients with acute, episodic, and chronic health problems. Concise, easy to read, and updated throughout, the resource delivers pharmacotherapy regimens for more than 600 diagnoses—including over 30 that are new. The print format includes an eBook with digital updates to assure immediate access to essential information. Listed alphabetically by diagnosis, pharmacotherapy regimens include, for each diagnosis, drug choices listed by generic name, FDA pregnancy category, generic/over-the-counter availability, adult/pediatric dosing regimens, brand names, forms of dosage, and additives. Clinically useful information such as laboratory values to be monitored, patient teaching points, and safety information is interspersed throughout each diagnosis. Additional quick-access features include information presented in convenient table format and an alphabetical cross-reference index of drugs by generic and brand

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name, with FDA pregnancy category and controlled drug schedule (I, II, III, IV, V). Key Features: Includes 31 new diagnoses totaling over 600 organized alphabetically Serves as a quick-access prescribing reference for APRN and PA students and health care providers in all primary care settings Presents drug information in condensed and summary form for ease of use Within each diagnosis, drug choices are listed alphabetically by generic /trade name, FDA pregnancy category, adult/pediatric dosing, dose forms, and additives Delivers guidance on lab values to be monitored, patient education points, and safety information Includes 30 Appendices with ready access to key drug classifications, FDA Pregnancy Categories, US Schedule of Controlled Substances, Immunization Schedules, Contraceptive Guidance, categories Anti-Infectives, and more! Offers brand/generic cross-reference

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The third edition of Introduction to Splinting: A Clinical Reasoning and Problem-Solving Approach helps readers master the basic theory, principles, and techniques of splinting needed for clinical practice. Using a combination textbook/workbook format, it integrates theory and technical knowledge with hands-on learning features that equip readers with essential clinical knowledge, critical thinking skills, and problem-solving skills associated with splinting. Comprehensive coverage presents the fundamentals of splinting that a therapist needs to know. Self-quizzes, case studies, and lab exercises help readers bridge the gap between learning and practice and apply what they've learned to real-life situations. Key terms, chapter outlines, and review questions highlights specific information that the reader can expect to learn from each chapter. Combined textbook/workbook format reinforces information as it is learned and encourages practical

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application of concepts. Content has been updated to include new research and techniques, current trends, and new information sources. Lists of key terms for each chapter help familiarize the reader with relevant terminology. Two new case studies have been added to each chapter, strengthening the book's clinical application focus.

Companion CD contains video clips demonstrating how to fabricate specific splints. Four new chapters cover topics such as occupation-based splinting, tools, processes, and techniques of splinting, and splints for the elbow, shoulder, and fingers. Chapters are divided into three units: splinting foundations; splints for conditions and populations; and topics related to splinting. A new appendix directs readers to helpful online resources and vendors.

This book consists of two parts: Prosthetics and Orthotics. Over the years there has been rapid development in prostheses and orthoses.

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Advancement of technology, significant progress in computer components and robotics, and the development of new materials have enabled many people in need to return to useful and practical life. This book provides information for effective clinical decision-making for those working with people who need medical supportive devices. Over two parts, chapters in this volume examine construction methods, applications, and effects of prosthetic and orthotic devices.

Ensuring Accuracy in Documentation

War's Waste

Atlas of Orthoses and Assistive Devices E-Book

Prosthetics and Patient Management

Essentials of Prosthetics and Orthotics

Prosthetic Restoration and Rehabilitation of the Upper and Lower Extremity is a well-illustrated, state-of-the-art reference

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on the science and practice of post-amputation care, prosthetic restoration, and functional rehabilitation, designed to maximize patient independence and quality of life. Chapters are written by physiatrists, prosthetists, surgeons, and therapists at the University of Michigan, clinicians and teachers who work with amputees on a daily basis. Clinically oriented, it covers both lower and upper extremity restoration and rehabilitation and serves as a handy reference for busy practitioners to support sound clinical decision-making. Beginning with basic anatomy, kinesiology, and a recap of surgical decisions principles and post-operative care for amputees, the book discusses biomechanics, clinical assessment, prosthetic options, how to write a complete and

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detailed prescription for the prosthesis, restoration and management of specific problems by region, and rehabilitation programs and strategies. Common medical issues such as phantom limb sensation and pain, skin problems, and sexual and psychological considerations are discussed as well. In-depth coverage of prosthetic restoration is provided for special populations such as infants, children, the elderly, athletes multi-extremity amputees, and those who have lost limbs to cancer. Chapters are written in expanded outline format for ease of use and feature numerous full-color diagrams, photos, and other illustrations. This text will guide physicians, trainees, and other members of the care team through the fundamentals of restoring function to individuals who have lost limbs or body

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parts. Key Features: Provides a state-of-the-art, accessible, clinical approach to post-amputation care, prosthetic restoration, and functional rehabilitation Covers both upper and lower extremities Addresses prostheses for special populations and sports and recreation Includes boxed clinical pearls at the start of each chapter, illustrated quick reference tables, and full-color photos throughout Supports clinical decision making and addresses practical questions and problems Advises on new requirements for Medicare and Medicaid patients, and includes patient education materials and sample prescription forms that can be customized for use in any clinic Outlines important information for returning to the community after amputation

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Gain a strong foundation in the field of orthotics and prosthetics! Orthotics and Prosthetics in Rehabilitation, 4th Edition is a clear, comprehensive, one-stop resource for clinically relevant rehabilitation information and application. Divided into three sections, this text gives you a foundation in orthotics and prosthetics, clinical applications when working with typical and special populations, and an overview of amputation and prosthetic limbs. This edition has been updated with coverage of the latest technology and materials in the field, new evidence on effectiveness and efficacy of interventions and cognitive workload associated usage along with enhanced color photographs and case studies - it's a great resource for students and rehabilitation professionals alike.

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Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Book organized into three parts corresponding with typical patient problems and clinical decision-making. The latest evidence-based research throughout text help you learn clinical-decision making skills. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision-making and evidence-based practice. World Health Organization disablement model (ICF) incorporated to help you learn how to match patient's limitations with the best clinical treatment. Multidisciplinary approach in a variety of settings demonstrates how physical therapists can work with the rest of the healthcare team to

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provide high quality care in orthotic/prosthetic rehabilitation. The latest equipment and technology throughout text addresses the latest options in prosthetics and orthotics rehabilitation Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. A wealth of tables and boxes highlight vital information for quick reference and ease of use. NEW! Color photographs improve visual appeal and facilitates learning. NEW! Increased evidence-based content includes updated citations; coverage of new technology such as microprocessors, microcontrollers, and integrated load cells; new evidence on the effectiveness and efficacy of interventions; and new evidence on cognitive workload usage. NEW! Authors Kevin

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K Chui, PT, DPT, PhD, GCS, OCS, CEEAA, FAAOMPT and Sheng-Che (Steven) Yen, PT, PhD add their expertise to an already impressive list of contributors.

This is a Pageburst digital textbook; The most comprehensive physical therapy text available on this topic, Orthotics and Prosthetics in Rehabilitation, 2nd Edition provides clinically relevant information in a reader-friendly format. It provides essential information about orthotic/prosthetic prescription and fabrication to give readers a foundation for gait assessment, both pre- and post-intervention. Separate chapters cover each type of orthotic followed by clinical applications for typical and special populations, while the section on prosthetics provides an overview of the epidemiology of amputation and

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the criteria the physical therapist needs in order to determine the necessity for prosthetic limbs. Instructor resources available; contact your sales representative for details. Includes guidelines for pre-prosthetic training programs Presents case vignettes as models of evidence-based practice and clinical decision making Uses a multidisciplinary approach to demonstrate how physical therapists can best work with the rest of the health care team References the Guide to Physical Therapist Practice, 2nd Edition to keep readers up to date with the recognized standard in the field Coverage of the latest equipment and technology helps readers understand current options for their patients Additional case studies show the application of various situations leading to amputation New

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information on the WHO disablement model, showing how it applies to orthotics and prosthetics New chapters on orthotics in the management of neuromuscular impairment, orthotics in the management of musculoskeletal impairment, adaptive seating (unique!), and advanced training and athletics for persons with lower extremity amputation

Orthotics and Prosthetics in Rehabilitation Saunders

A Clinical Reasoning & Problem-Solving Approach

Surgical, Prosthetic, and Rehabilitation Principles

Psychoprosthetics

Prosthetics and Orthotics

Interfacing Humans and Machines for Rehabilitation and

Assistive Devices

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Offers a comprehensive overview of lower limb prosthetics and orthotics, covering normal and pathological gait, lower limb biomechanics, clinical applications, as well as prosthetics and orthotic design and components. This text is suitable for clinicians in the fields of physical medicine and rehabilitation, and, orthopedic and vascular surgery.

Foreword from a Clinical Biomechanist, Applied Physiologist and Prosthetist teaching graduate students in Prosthetics & Orthotics. While there are many books on Biomechanics, arguably the quintessential science of limb prosthetics, none addresses the fundamental principles in sufficient detail and depth to be practically useful to the prosthetist, rehabilitation specialist or researcher. Dr. Pitkin's monograph is an exemplary collection of theoretical principles from his research and o- ers, presented in its

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clinical and applied biomechanics form. The textbook provides an excellent overview of the many facets of lower limb prosthetic design and engineering for the ardent clinician researcher and student. The book delves into many of the basic concepts that are required knowledge for the clinician and the scientist to have as the foundation for their work. Dr. Pitkin has an eloquent manner in which he reflects on the history and literature to tell the storied evolution of prosthetic design . He takes the reader on a journey to consider his theories, which have substantive foundations to contemplate. By the end of chapter one, we have the basic history and an appreciation for the rationale behind the “rolling joint ankle” with evidence to support his theoretical views.

Canine Sports Medicine and Rehabilitation, Second Edition offers a thoroughly revised and updated new edition of this gold standard

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reference for all aspects of sports medicine and rehabilitation, encompassing basic science and integrated veterinary and physical therapy approaches. Presents current, state-of-the-art information on sports medicine and rehabilitation in dogs Offers perspectives from an international list of expert authors Covers all topics related to veterinary care of the canine athlete and all active dogs Includes illustrations and photographs throughout to demonstrate key concepts Provides clinical cases that set the information in context

Orthotics: A Comprehensive Clinical Approach is an innovative and comprehensive new text that provides essential information about contemporary orthoses to guide the student and clinician in prescribing and utilizing these appliances in neuromuscular, musculoskeletal, and integumentary rehabilitation. Written by recognized authorities in the field, Joan Edelstein, MA, PT, FISPO

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and Jan Bruckner, PhD, PT, this is a prime resource for practitioners and clinicians. Individual chapters cover orthoses for the foot, ankle, knee, hip, trunk, neck, shoulder, elbow, wrist, and hand. Orthoses for patients with paraplegia, burns, and soft tissue contractures are detailed and illustrated. Prescription guidelines, evaluation techniques, goal setting, and training procedures are presented. Each chapter has interesting thought questions and case studies to promote clinical reasoning and problem-solving skills. A unique feature of this text is the inclusion of a point-counterpoint discussion to demonstrate how clinicians can manage the same patient in different ways. This approach inspires broader thinking about clinical management.

Orthotics and Prosthetics in Rehabilitation - Text and E-Book Package

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A Guide to Practice

A Comprehensive Clinical Approach

Canine Sports Medicine and Rehabilitation

A Case Study Approach

Focusing on the lower extremities and spine, this extensively illustrated text presents a problem-solving approach to the evaluation and prescription of prosthetics and orthotics in physical therapy interventions. Prosthetics and Orthotics presents the latest

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developments in materials and fabrications, an in-depth analysis of gait deviations and interventions, conditions, psychosocial issues, biomechanics, and more. This invaluable resource also includes pediatric and geriatric perspectives, scientific literature supporting evidence-based practice, exercise and functional activities for the patient, case studies following the APTA's "Guide to Physical Therapist Practice", critical

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thinking questions, lab activities and practical applications.

Comprehensive and concise review of the essential facts needed to do a successful clinical rotation in physical medicine and rehabilitation (PM&R). Writing to be quickly read and comprehended, the authors spell out the implications of brain injury, the effects of spinal cord injury, the uses of orthotics and prosthetics, and the crucial importance of cardiac and

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pulmonary rehabilitation to maximize functional independence. Additional chapters detail the principles of pediatric, neuromuscular, cancer, and orthopedic rehabilitation, and demonstrate the use of electrodiagnostic techniques that can be used to help localize a lesion of the neuromuscular system and determine its severity, time course, and prognosis. The book also provides a handy review for passing PM&R board

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exams.

Along with the introduction of technology in nearly every facet of human life comes the question of the ethical side of using technology to improve the human condition, whether that be physically or mentally. The capabilities of human enhancement technologies have created a dual-sided approach to discussing human enhancement: the critical approach of attempting to reach human perfection

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and the ethics within that idea and the endless capabilities of technology that have greatly impacted the medical field. It is essential to discuss both aspects within these emerging technologies, whether as separate entities or as cohesive units. Ranging from disease detection and treatment to implants and prosthetics to robotics and genetic engineering, human enhancement technologies are widespread and multi-purposed. By going beyond the

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capabilities of human hands, these technologies have propelled modern medicine and healthcare to new levels that have allowed humans to face new treatments or assistive technologies not seen before. The Research Anthology on Emerging Technologies and Ethical Implications in Human Enhancement covers the primary technologies and tools being used in medicine and healthcare along with discussions on the ethics of enhancing the human body.

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Topics covered include prosthetics and implants, robotics, human disorders/diseases and treatments and smart technologies, along with law and theory. This publication serves as a valuable reference work for doctors, medical professionals, researchers, students, professionals, and practitioners involved in fields that include ethics, medicine, computer science, robotics, genetics, assistive technologies, nanotechnology,

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biomedical engineering, and biotechnology.

A high-yield board review and quick reference for Rehabilitation Medicine Rehabilitation Medicine Rapid Review is written primarily for Physical Medicine and Rehabilitation residents preparing for their board exams, and is also an excellent reference for practicing physicians who need a primer on this rapidly growing specialty. With content organized around the American board of

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Physical Medicine and Rehabilitation core curriculum, this powerful review is enhanced by more than 500 review questions and answers, and concise, bulleted, high-yield text. Readers will find quick answers to common and infrequent issues encountered in rehabilitation medicine

Orthotics and Prosthetics in Rehabilitation

Evidence-based Rehabilitation

Essentials of Cardiopulmonary Physical

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Therapy - E-Book

Orthotics and Prosthetics in

Rehabilitation - E-Book

Orthotics

This text provides the most up-to-date information on evidence-based practice, the concepts underlying evidence-based practice, and implementing evidence into the rehabilitation practice. This text is organized by the steps of the process of evidence-based practice--introduction to evidence-based practice, finding the

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evidence, assessing the evidence, and using the evidence.

A clinical focus with unfolding case studies, stimulating questions, and an outstanding art program of 550 photographs and line illustrations make important concepts easy to understand and apply. You'll also find a discussion, unique to this text, of the pathology of what necessitates amputations and why you would choose one prosthetic/orthotic over another.

The most comprehensive physical therapy

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text available on the topic, Orthotics & Prosthetics in Rehabilitation, 3rd Edition is your one-stop resource for clinically relevant rehabilitation information.

Evidence-based coverage offers essential guidelines on orthotic/prosthetic prescription, pre- and post-intervention gait assessment and outcome measurement, and working with special populations.

Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and

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outpatient settings. Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. World Health Organization (WHO) International Classification of Function model provides consistent language and an international standard to describe and measure health and disability from a biopsychosocial perspective. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision making and evidence-based practice. A visually

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appealing 2-color design and a wealth of tables and boxes highlight vital information for quick reference and ease of use. Updated photos and illustrations reflect current clinical practice. Updated chapter on Assessment of Gait focuses on clinically useful outcome measures. Updated chapter on Motor Control and Motor Learning incorporates new insights into neuroplasticity and functional recovery. NEW! Integrated chapter on Lower Extremity Orthoses assists in clinical decision making about the best options for your

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patients. NEW! Chapter on Athletics after Amputation explores advanced training and athletics, including running and athletic competition to enhance the quality of life for persons with amputation. NEW! Chapter on the High Risk Foot and Wound Healing helps you recognize, treat, and manage wounds for the proper fit and management of the patient. NEW! Chapter on Advanced Prosthetic Rehabilitation provides more thorough rehabilitation methods beyond the early care of persons learning to use their prostheses.

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Improving quality of life is one of the main advantages of integrating new innovations into medicine. New technologies are revolutionizing medicine and opening new opportunities for patients, doctors, clinics, and companies. The patient's well-being is monitored autonomously by smartphones, digital medical records simplify everyday clinical work, virtual reality is used for treatment, and robots help in the operating room. The new technological possibilities in healthcare not only

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change patients' lives, but also the work of doctors, clinics, and companies. In the fields of healthcare and medicine, new technologies can be used for patient communication, health monitoring, or for the treatment of patients, and modern research is devoted to advancing and understanding these technologies. Ethical Implications of Reshaping Healthcare With Emerging Technologies includes the most up-to-date research in the fields of healthcare and medicine worldwide, provides answers to the forms of treatment

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that are already possible in medicine, and illuminates the future possibilities that are already being researched. In addition, today's knowledge is translated and shown in how new technologies such as autonomous VR-system can be used for pain reduction as part of a treatment. Finally, this book examines the ethical guidelines in healthcare and medicine that are associated with the rapid development of these technologies. This book will be useful for the healthcare industry, hospital administration, the health

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insurance industry, doctors, healthcare workers, business professionals, IT specialists, medical software designers, scientists, practitioners, researchers, academicians, and students looking for the latest information on the use of emerging technologies in healthcare settings.

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Research Anthology on Emerging Technologies and Ethical Implications in Human Enhancement

Atlas of Limb Prosthetics

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Ethical Implications of Reshaping Healthcare With Emerging Technologies

Here ' s all the guidance you need to overcome the most difficult musculoskeletal problems using orthoses and assistive devices! With new coverage of postpolio syndrome, cranial orthoses, and now incorporating the perspectives of renowned physiatrists, this is a one-stop rehabilitation resource. Tips and Pearls in every chapter and a new 2-color format make accessing information a snap. Includes Chapters on biomechanics of spine, upper limb and hand and lower limb to help you understand the factors that determine the orthoses

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available for these joints. Incorporates chapters on the Orthotic Prescription, Strength and Materials, and the Normal and Pathologic Gait help you understand your role in the rehabilitative process. Contains information about the specific science behind the construction of orthoses—perfect for the Certified Prosthetist/Orthotist and the interested physician. Carries the authority and approval of AAOS, the preeminent orthopaedic professional society. Uses a new 2-color format to make the book easier to use and information easier to retain. Includes Tips and Pearls boxes in every chapter so you can quickly access expert guidance. Contains

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new chapters on: Orthoses for Persons with Postpolio Paralysis; Orthoses for Persons with Postpolio Syndromes; and Cranial Orthoses. Incorporates evidence-based recommendations into the chapters on spinal, upper- and lower-limb orthoses to help you select the most proven approach for your patients.

Written by a multidisciplinary team of experts from the University of Washington/Harborview Medical Center, this volume is the first comprehensive clinical reference on trauma rehabilitation. The book brings together, in one concise, cohesive source, all the essential practical information from

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physiatry, orthopaedics, neurosurgery, general surgery, emergency medicine, rehabilitation nursing, physical therapy, occupational therapy, speech pathology, and prosthetics/orthotics.

Chapters cover traumatic brain injury, spinal cord injury, multiple musculoskeletal trauma, traumatic amputations, peripheral nerve injuries, and burns. Particular attention is given to early rehabilitation interventions during the acute phase. A chapter on special considerations for pediatric patients is also included.

Master the hows and whys of documentation! This is the ideal resource for any health care

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professional needing to learn or improve their skills—with simple, straight forward explanations of the hows and whys of documentation. It also keeps pace with the changes in Physical Therapy practice today, emphasizing the Patient/Client Management and WHO ' s ICF model.

Textbook of Neural Repair and Rehabilitation

Introduction to Orthotics

Writing Patient/Client Notes

Principles of Rehabilitation Medicine

Short Textbook of Prosthetics and Orthotics