

## Prosthetic Restoration And Rehabilitation Of The Upper And Lower Extremity

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Prosthetic Restoration and Rehabilitation of the Upper and Lower Extremity is a well-illustrated, state-of-the-art reference on the science and practice of post-amputation care, prosthetic restoration, and functional rehabilitation, designed to maximise 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.

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Written by physiatrists, 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 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 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.

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

This is the only comprehensive guide to the surgery, prosthetic fitting, and rehabilitation of individuals sustaining an arm amputation. It incorporates the major advances in prosthetics and rehabilitation that have occurred since the first edition was published, and will improve the quality of service and the outcomes for those who sustain an arm amputation. It is essential reading for all surgeons, prosthetists, and rehabilitation professionals who work with upper limb amputees.

ABI Professional Publications is pleased to offer a dictionary of terminology for the prosthetic restoration professional. The fields involved in the restoration by prosthetic means of missing facial and somato structures have been rapidly expanding over the past two decades. Professionals in the field must now be conversant with the disciplines of prosthodontics, prosthetics, anaplastology, ocular prosthetics, material science, and medical art. The Dictionary of Prosthetic Rehabilitation provides the professional with a single-source, comprehensive book containing definitions of the terms used by members of the various professional fields working together in prosthetic restoration. More than 2,500 terms are covered in this easy to use reference.

Visual Prosthetics provides an in-depth analysis of the principles of operation, current state, anticipated developments, and functional aspects of visual prosthetics restoring sight to visually impaired individuals. This volume uniquely describes the human visual system in health and disease in a pedagogical and didactic manner, fitting to professionals and researchers with a bioengineering background. Readers will find a balanced overview of electrical, molecular chemical and synthetic chromophore stimulation, in addition to the biophysics and psychological aspects of vision restoration. Unlike competitive texts, this introduction also includes the need and methods for functional evaluation and rehabilitation. Professionals in the field of biomedical engineering and graduate and postgraduate researchers will find Visual Prosthetics a valuable reference.

Volume 2 of the Textbook of Neural Repair and Rehabilitation stands alone as a clinical handbook for neurorehabilitation.

Preceded by: Physical medicine and rehabilitation / [edited by] Randall L. Braddom. 4th ed. c2011.

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. 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 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 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.

Neural engineering is a discipline that uses engineering techniques to understand, repair, replace, enhance, or treat diseases of neural systems. Currently, no book other than this one covers this broad range of topics within motor rehabilitation technology. With a focus on cutting edge technology, it describes state-of-the-art methods within this field, from brain-computer interfaces to spinal and cortical plasticity. Touching on electrode design, signal processing, the neurophysiology of movement, robotics, and much more, this innovative volume collects the latest information for a wide range of readers working in biomedical engineering.

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