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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.

"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 in recent years, and will improve the quality of service and the outcomes for those who sustain an arm amputation. Sections deal with the surgical aspects of arm amputation, the comprehensive management of the arm amputee, prosthetic restoration following arm amputation, the special concerns of upper extremity amputation in children, and clinical outcomes. The incidence, demographics, and functional outcomes are quite different from those of lower limb amputees. The arm amputee is most commonly a young man who sustains a traumatic injury, most often to his right, dominant arm. Because the incidence of arm amputation is low compared to that of the lower extremity, relatively few health professionals have much experience in providing surgery, therapy, rehabilitation, prosthetic care, or counseling for a significant number of arm amputees. This book is the definitive text for these individuals. The prosthetic field, including its allied healthcare team, takes on a formidable task in restoring physical capabilities to the upper extremity amputee. This feat cannot be accomplished solely using modern technology, and technology is not always the central issue. Optimal rehabilitation requires an underlying commitment in many essential areas of care: for one, sensitivity to the desires, anxieties and fears of the individual with amputation. Although the prosthetic practitioner has at his or her disposal more technology than ever before, restoring integral function for the amputee involves still more than mechanical application. Interdisciplinary, cooperative efforts in research, development, and treatment between prosthetic practitioners and other constituents of the allied healthcare team is paramount. The rehabilitation process must focus not only on the provision and use of a prosthesis, but also on issues related to surgical procedures, self-determination and pain management. To this end, *Functional Restoration of Adults and Children with Upper Extremity Amputation* provides the definitive guide for all surgeons, prosthetists, and rehabilitation professionals who work with upper limb amputees. "

*Implement TMR with Your Patients and Improve Their Quality of Life* Developed by Dr. Todd A. Kuiken and Dr. Gregory A. Dumanian, targeted muscle reinnervation (TMR) is a new approach to accessing motor control signals from peripheral nerves after amputation and providing sensory feedback to prosthesis users. This practical approach has many advantages over other neural-machine interfaces for the improved control of artificial limbs. *Targeted Muscle Reinnervation: A Neural Interface for Artificial Limbs* provides a template for the clinical implementation of TMR and a resource for further research in this new area of science. After describing the basic scientific concepts and key principles underlying TMR, the book presents surgical approaches to transhumeral and shoulder disarticulation amputations. It explores the possible role of TMR in the prevention and treatment of end-neuromas and details the principles of rehabilitation, prosthetic fitting, and occupational therapy for TMR patients. The book also describes transfer sensation and discusses the surgical and functional outcomes of the first several TMR patients. It concludes with emerging research on using TMR to further improve the function and quality of life for people with limb loss. With contributions from renowned leaders in the field, including Drs. Kuiken and Dumanian, this book is a useful guide to implementing TMR in patients with high-level upper limb amputations. It also supplies the foundation to enable improvements in TMR techniques and advances in prosthetic technology.

Visual Prosthetics provides an in-depth analysis of the principles of operation, current state, anticipated developments, and functional aspects of visual

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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.

This seminal book articulates a new paradigm in prosthodontic practice documenting a radical shift in clinical focus toward a more biologic and patient-centered approach. Drawing on 25 years of collective knowledge and experience, the authors guide readers through each step of this comprehensive, multidisciplinary approach to patient care. This book centers on diagnosis and clinical decision making for prosthetic rehabilitation, which demands equal consideration of patients' systemic, psychologic, and functional needs as well as basic knowledge of the other disciplines of dentistry. With impressive supporting documentation from the literature, the authors outline a systematic approach to evidence-based prosthodontics. Restorative dentists at all levels will be eager to embrace this innovative approach to patient care.

Journal of Prosthodontics on Complex Restorations compiles 34 of the journal's best articles discussing complex restorative dental challenges, collecting notable works on the subject. Presents a curated list of the best peer-reviewed articles on complex restorations from the pages of Journal of Prosthodontics Covers management of maxillofacial defects using CAD/CAM technology, tooth wear, congenital disorders, orthodontic/prosthodontic patients, patients with surgical and maxillofacial challenges, and completely edentulous patients using new ceramic material Offers a mix of clinical reports, research articles, and reviews

Thoroughly updated for its Second Edition, this book provides an in-depth discussion on prosthetic restoration of hearing via implantation. The text succinctly discusses the scientific principles behind cochlear implants, examines the latest technology, and offers practical advice on how to assess candidates, how to implant the devices, and what rehabilitation is most effective. The authors thoroughly examine the outcomes of cochlear implantation, the impact on the patient's quality of life, the benefits in relation to the costs, and the implications of cochlear implants for language and speech acquisition and childhood education.

Powered Prostheses: Design, Control, and Clinical Applications presents the state-of-the-art in design, control and application of assistive technologies used in rehabilitation, including powered prostheses used in lower and upper extremity amputees and orthosis used in the rehabilitation of various joint disorders. The progress made in this field over the last decade is so vast that any new researcher in this field will have to spend years digesting the main achievements and challenges that remain. This book provides a comprehensive vision of advances, along with the challenges that remain on the path to the development of true bionic technology. Describes the latest assistive technologies that can help individuals deal with joint pain or limb loss Presents a tangible and intuitive description of scientific achievements made Highlights the existing technologies and devices that are available and used by amputees or patients with mobility limitations Suggests solutions and new results that can further enhance assistive technologies

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