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Hand and Upper Extremity Rehabilitation *Rehabilitation of the Hand and Upper Extremity, E-Book* **Therapy of the Hand and Upper Extremity** *Hand and Upper Extremity Rehabilitation Splinting the Hand and Upper Extremity* **Rehabilitation of the Hand and Upper Extremity, 2-Volume Set E-Book** **Evidenced Based Hand and Upper Extremity Protocols (Second Edition)** **Pediatric Hand and Upper Limb Surgery** *Orthotic Intervention for the Hand and Upper Extremity* **A Pocketbook Manual of Hand and Upper Extremity Anatomy** *Hand Rehabilitation* **Surgical Anatomy of the Hand and Upper Extremity Rehabilitation of the Hand and Upper Limb Orthotic Intervention for the Hand and Upper Extremity Skeletal Trauma of the Upper Extremity, E-Book** **Ultrasound of the Hand and Upper Extremity Fabrication Process Manual for Orthotic Intervention for the Hand and Upper Extremity** *Hand and Upper Extremity Splinting Atlas of Upper Extremity Trauma Plastic Surgery E-Book* **Prosthetic Restoration and Rehabilitation of the Upper and Lower Extremity** *Rehabilitation of the Hand and Upper Extremity* *Hand And Upper Extremity Reconstruction E-Book* **MRI of the Upper Extremity** *Handbook of Upper Extremity Examination* **Rehabilitation of the Hand and Upper Extremity** *Biomechanics of the Upper Limbs* **Reconstructive Surgery of the Hand and Upper Extremity Targeted Muscle Reinnervation** **The Pediatric Upper Extremity Compressive Neuropathies of the Upper Extremity** *Fundamentals of Hand Therapy* **Skeletal Trauma of the Upper Extremity** *Biomechanics of the Upper Limbs* **Reconstructive Surgery of the Hand and Upper Extremity Operative Orthopedics of the Upper Extremity Arthroplasty of the Upper Extremity Congenital Anomalies of the Upper Extremity** *Orthotic Design and Fabrication for the Upper Extremity* **Upper-extremity Task-specific Training After Stroke Or Disability**

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"With a convenient outline format, this reference is ideal for use at the point of care. It covers common medical conditions of the hand, discussing both surgical and nonsurgical therapy options. Rehabilitation for both types of treatment is reviewed, and potential postoperative complications are addressed. Reflecting the collaborative nature of current practice, each chapter is written by a hand therapist with surgical content provided by a hand surgeon."--BOOK JACKET. 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. This volume in the Procedures in Reconstructive Surgery Series covers the key hand and upper extremity reconstruction techniques you need to stay on the cutting edge of this rapidly evolving specialty. Experts clearly explain how to perform procedures, sharing "tricks of the trade and clinical pearls so you can offer your patients superior results. Each book uses a concise, consistent format that complements the commentary. Master essential reconstructive surgical techniques with the comprehensive titles in this series! Provides real-life clinical details and clear visual guidance to the different operative steps with full-color illustrations and original artwork. Offers complete coverage of reconstructive techniques provided by well-recognized international authorities to provide balanced and comprehensive perspectives. Discusses common pitfalls, emphasizing optimizing outcomes, to refine the quality of your technique. Blending the latest technical and clinical skills of hand surgery and hand therapy, Hand and Upper Extremity Rehabilitation: A Practical Guide, 4th Edition walks you through the treatment of common medical conditions affecting the upper extremities and highlights non-surgical and surgical procedures for these conditions. This expanded fourth edition presents the latest research in hand and upper extremity rehabilitation and provides the purpose and rationale for treatment options. Clinical outcomes included in each chapter relate clinical expectations to the results of clinical research trials, providing you with the expected range of motion and function based on evidence in the literature. Highly structured organization makes information easy to find, allowing the text to function as a quick reference in the clinical setting. Contributors from a variety of clinical settings like hand therapy clinics, hospitals, and outpatient clinics means you get to learn from the experience of clinicians working in diverse clinical contexts like yourself. Over 400 line drawings and clinical photographs delineate important concepts described in text. Chapters divided into eight parts - Wound Management, Nerve Injuries, Tendon Injuries, Shoulder, Elbow, Wrist and Distal Radial Ulnar Joint, Hand, and Special Topics - so information can be located quickly. 51 leading experts offer fresh insight and authoritative guidance on therapeutic approaches for many common diagnoses. Treatment guidelines presented for each stage of recovery from a wide range of upper extremity conditions. NEW! Authoritative quick reference guide to surgical and non-surgical procedures for hand and all upper extremity conditions. NEW! Updated information and references offers the latest information and research in the areas of hand and upper extremity rehabilitation. NEW! Larger trim size and new design accommodates a two-column format that is easier to follow. Pediatric Hand and Upper Limb Surgery guides you to the present indications for intervention and care in upper limb pediatric disorders. The fifty chapters are subdivided into: Congenital, Neuromuscular, Trauma, Sports, Soft tissue and Microvascular, and Tumor. Each section stands alone but together provides a comprehensive and detailed description of all elements of evaluation and treatment of infants, children, and adolescents with maladies of the hand and upper limb. Each chapter has a case presentation, series of clinical questions, and fundamentals on etiology and epidemiology, clinical evaluation, and surgical indications. In addition, each chapter details postoperative care, anticipated results, complications, case outcome, and includes a summary. There are technical tip highlights, unique situations and deeper insight into the conditions described in each subsection. The text is complemented with over 1,000 images and illustrations to assist in visualizing the specific surgical challenges you may face. Lippincott(R) Connect Featured Title Purchase of the new print edition of this Lippincott(R) Connect title includes lifetime access to the digital version of the book, plus related materials such as videos and multiple-choice Q&A and self-assessments. Companion to the Fabrication Process Manual for Orthotic Intervention for the Hand and Upper Extremity, now published as a separate text. This comprehensive text is the perfect resource for use in the classroom, during labs, and in clinical practice for both occupational and physical therapists. Additionally, it is a great reference for those studying to become a Certified Hand Therapist (CHT). Orthotic Intervention for the Hand and Upper Extremity: Splinting Principles and Process superbly highlights anatomical and mechanical principles; discusses associated indications and precautions; and promotes clinical reasoning skills by presenting various patient examples, therefore allowing you to confidently utilize techniques in clinical practice. This updated third edition is divided into the following sections: fundamentals necessary for successful orthotic fabrication, additional intervention methods, and orthoses for specific diagnoses and patient populations. Now with a larger format for more generous pattern appreciation, as well as incorporated and revised evidence-based content from an expanded list of contributing authors, it remains the go-to resource for every level of usage. New Chapters on Relative Motion Orthoses, Prosthetics, Orficast, Delta-Cast, and Tendon & Nerve Transfers. Fabrication Process Manual is now a separate supplemental resource including comprehensive step-by-step directions for more than 60 orthoses in addition to dozens more orthosis options included within the Clinical and Expert Pearls. Full-color photographs of actual patients provide hundreds of new clinical examples demonstrating the direct link to clinical practice. Larger Format of textbook allowing for larger images and additional content. Addition of Expert Pearls generously shared by dozens of hand therapy experts from around the world including unique orthotic ideas, tips, and material usage. Field Notes written by chosen clinical experts highlighting a unique perspective on that chapter's content. FAQs list common questions therapists have related to orthotic fabrication and other intervention strategies for a specific patient population. Respected Surgeons contributed their thoughts highlighting the important collaborative relationship between a surgeon and hand therapist. Lippincott(R) Connect features: Lifetime access to the digital version of the book with the ability to highlight and take notes on key passages for a more personal, efficient study experience. Carefully curated resources, such as interactive diagrams, video tutorials, organ sounds, and self-assessment, all designed to facilitate further comprehension. Lippincott(R) Connect also allows users to create Study Collections to further

personalize the study experience. With Study Collections you can: Pool content from books across your entire library into self-created Study Collections based on discipline, procedure, organ, concept or other topics. Display related text passages, video clips and self-assessment questions from each book (if available) for efficient absorption of material. Annotate and highlight key content for easy access later. Navigate seamlessly between book chapters, sections, self-assessments, notes and highlights in a single view/page. Long recognized as an essential reference for therapists and surgeons treating the hand and the upper extremity, *Rehabilitation of the Hand and Upper Extremity* helps you return your patients to optimal function of the hand, wrist, elbow, arm, and shoulder. Leading hand surgeons and hand therapists detail the pathophysiology, diagnosis, and management of virtually any disorder you're likely to see, with a focus on evidence-based and efficient patient care. Extensively referenced and abundantly illustrated, the 7th Edition of this reference is a "must read" for surgeons interested in the upper extremity, hand therapists from physical therapy or occupational therapy backgrounds, anyone preparing for the CHT examination, and all hand therapy clinics. Offers comprehensive coverage of all aspects of hand and upper extremity disorders, forming a complete picture for all members of the hand team—surgeons and therapists alike. Provides multidisciplinary, global guidance from a Who's Who list of hand surgery and hand therapy editors and contributors. Includes many features new to this edition: considerations for pediatric therapy; a surgical management focus on the most commonly used techniques; new timing of therapeutic interventions relative to healing characteristics; and in-print references wherever possible. Features more than a dozen new chapters covering Platelet-Rich Protein Injections, Restoration of Function After Adult Brachial Plexus Injury, Acute Management of Upper Extremity Amputation, Medical Management for Pain, Proprioception in Hand Rehabilitation, Graded Motor Imagery, and more. Provides access to an extensive video library that covers common nerve injuries, hand and upper extremity transplantation, surgical and therapy management, and much more. Helps you keep up with the latest advances in arthroscopy, imaging, vascular disorders, tendon transfers, fingertip injuries, mobilization techniques, traumatic brachial plexus injuries, and pain management—all clearly depicted with full-color illustrations and photographs. There is already a wealth of literature covering cumulative trauma disorders and medical management, as well as the biomechanics of manual material handling and lower back problems. However, despite a spike in the number of work-related musculoskeletal disorders (WRMSDs) in the upper limbs—due to a sharp increase in the amount of computer-related jobs—few if any books have focused exclusively on WRMSDs, until now. *Biomechanics of the Upper Limbs: Mechanics, Modeling and Musculoskeletal Injuries, Second Edition* offers vital information and tools to improve analysis of external forces and their effects on the human body. This can help ergonomists better understand job stressors and the role they play in the development of disorders, enabling them to modify the work environment and educate practitioners to better control harmful situations. Using the author's medical and engineering expertise to distill essential subject matter and useful technical data, this comprehensive text explores: Biomechanics of the upper limbs and the motor control system The structure and physiology of the human musculoskeletal and neuromuscular systems Recent research findings and solutions to various ergonomic problems Models of various components of the neuromuscular systems, as well as larger systems in the upper limbs Risk factors for disorders and tools used to identify their causes Designed as a textbook for a typical semester-long graduate-level engineering or kinesiology course, this book includes a link to an ancillary website that offers materials such as PowerPoint® slides, sample exams, and an instructor's manual with complete solutions. It also serves as a practical, up-to-date, engineering-oriented resource for researchers, industrial ergonomists, industrial hygienists, and medical professionals who require supplementary material. Presenting over 100 rehabilitation protocols for the hand and upper extremity in an easy-to-use, step-by-step format, this practical reference provides surgeons and therapists alike with a go-to source for the therapy technique or strategy appropriate for their patients. Covering injuries from the shoulder, elbow, wrist, hand and fingers, each protocol includes bullet-pointed steps in daily or weekly increments following the injury or surgery and are inherently adaptable to the specific surgical intervention or rehabilitation requirement. Procedures following arthroplasty, extensor and flexor tendon injuries, fractures and dislocations, ligament and soft tissue injuries, and nerve compression syndromes are among the many and multifaceted therapies presented. This book will be an invaluable resource for the orthopedic surgeon, hand surgeon, physical therapist, occupational therapist, hand therapist and any active clinician treating injuries to the hand and upper extremity. From the sternoclavicular joint to the distal phalanx, *Skeletal Trauma of the Upper Extremity* is a practical, one-volume resource covering all aspects of upper limb trauma and surgery. Comprehensive in scope, it features a multidisciplinary, step-by-step approach to evaluation and management, including concise background information and a detailed focus on practical points and surgical techniques. Written by global experts in traumatology, sports medicine, shoulder, elbow, and hand surgery, this richly illustrated guide brings you into the operating room with leaders in the field. Offers detailed, practical guidance from the originators and/or masters of each procedure, along with multiple, illustrated surgical technique descriptions. Includes pearls and pitfalls, preoperative evaluation and indications, surgical techniques, rehabilitation, and management of complications. Features tables and figures throughout that clearly demonstrate surgical tips and tricks. Identifies controversial topics and covers current challenges such as arthroscopic coracoclavicular/acromioclavicular joint reconstruction, reverse total shoulder arthroplasty for proximal humerus fracture, total elbow arthroplasty for fracture, interosseous membrane reconstruction of the forearm, and many more. Contains more than 500 high-quality illustrations, including anatomical and surgical illustrations, surgical photographs, ultrasounds, and x-rays. Sub-specialization within pediatric orthopedics is growing, in part due to the development of free-standing children's hospitals and the desire by patients and their parents to have "experts" care for them. We are at the forefront of a trend in physicians classifying themselves as pediatric upper extremity surgeons. Numerous pediatric hospitals now have or are recruiting physicians to focus their practice in this area. Historically, these issues were treated by general orthopedic surgeons, adult hand surgeons, pediatric orthopedic surgeons, or plastic surgeons. However, none of these professionals treat the entirety of pediatric upper extremity pathology, and no single reference has focused on the treatment of the pediatric upper extremity as a whole. For example, fractures have typically been written about in pediatric textbooks, while tendon and nerve injuries are covered in adult hand textbooks. This textbook is a comprehensive, illustrated reference that discusses all aspects of the pediatric upper extremity, from embryology and functional development to nerve injuries, trauma, tumors, burns, sports injuries and more. MRI of the Upper Extremity is a complete guide to MRI evaluation of shoulder, elbow, wrist, hand, and finger disorders. This highly illustrated text/atlas presents a practical approach to MRI interpretation, emphasizing the clinical correlations of imaging findings. More than 1,100 MRI scans show normal anatomy and pathologic findings, and a full-color cadaveric atlas familiarizes readers with anatomic structures seen on MR images. Coverage of each joint begins with a review of MRI anatomy with cadaveric correlation and proceeds to technical MR imaging considerations and clinical assessment. Subsequent chapters thoroughly describe and illustrate MRI findings for specific disorders, including rotator cuff disease, nerve entrapment syndromes, osteochondral bodies, and triangular fibrocartilage disorders. 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Identifies controversial topics and covers current challenges such as arthroscopic coracoclavicular/acromioclavicular joint reconstruction, reverse total shoulder arthroplasty for proximal humerus fracture, total elbow arthroplasty for fracture, interosseous membrane reconstruction of the forearm, and many more. Contains more than 500 high-quality illustrations, including anatomical and surgical illustrations, surgical photographs, ultrasounds, and x-rays. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices. This valuable resource describes the rehabilitation technique for conditions of the hand and upper extremity in one practical volume. Edited by an experienced hand surgeon and hand professional of international reputation, this authoritative text is heavily illustrated, comprehensive in its coverage, and contains a range of contributions from acknowledged experts in the field. An invaluable companion, it is ideal for physical therapists, occupational therapists, hand surgeons, and all those involved in the assessment and treatment of patients with conditions of the hand and upper extremity. Each chapter includes: Pathophysiology of the condition/injury A brief literature review and present status Therapy treatment with: an easy to read style brief content with adequate detail an emphasis on particular important points or tips specific to the subject good diagrams and photos to help clarify content indications/precautions an emphasis on functional aspects an evaluation of treatment possible complications A reference list Reconstructive surgery of the upper extremity has progressed significantly due to advances in microsurgical techniques, which include the increased popularity of perforator flaps, refinements in functional free muscle transfer, the application of nerve conduits and nerve allografts, motor nerve transfers, and hand transplantation. These innovations have helped surgeons achieve functional reconstruction goals and enabled patients' return to normal functioning earlier than previously possible. *Reconstructive Surgery of the Hand and Upper Extremity* presents a unique, color-coded roadmap for managing the complex upper extremity patient, based on a logical approach to surgical decision-making. Authors Gunter Germann, Randolph Sherman, and L. Scott Levin deliver seven systematically organized sections and 69 chapters with versatile, evidence-based guidelines and techniques. Strategic approaches and a video chapter covering patient examination reflect the collective wisdom gleaned from the authors' experience in the care of the upper extremity patient. Key Highlights Insightful guidance provided in 115 treatment-specific algorithms Patient histories and photos offer practical clinical information on a full continuum of cases—from gunshot wounds to tumors Over 500 high quality illustrations and graphics, many redrawn for this edition, delineate injuries and reconstruction techniques Richly illustrated atlas of flaps with nearly 140 new color photos details diverse approaches, including pearls and pitfalls Handy tables clearly outline rehabilitation protocols, classification, and zones of injury Includes bonus e-book version The text provides an invaluable framework to help both surgical residents and veteran upper extremity surgeons achieve optimal outcomes in their patients. Highly Commended by the BMA Medical Book Awards for Surgery! Reconstructive surgery of the upper extremity has progressed significantly due to advances in microsurgical techniques, which include the increased popularity of perforator flaps, refinements in functional free muscle transfer, the application of nerve conduits and nerve allografts, motor nerve transfers, and hand transplantation. These innovations have helped surgeons achieve functional reconstruction goals and enabled patients' return to normal functioning earlier than previously possible. *Reconstructive Surgery of the Hand and Upper Extremity* presents a unique, color-coded roadmap for managing the complex upper extremity patient, based on a logical approach to surgical decision-making. Authors Gunter Germann, Randolph Sherman, and L. Scott Levin deliver seven systematically organized sections and 69 chapters with versatile, evidence-based guidelines and techniques. Strategic approaches and a video chapter covering patient examination reflect the collective wisdom gleaned from the authors' experience in the care of the upper extremity patient. Key Highlights Insightful guidance provided in 115 treatment-specific algorithms Patient histories and photos offer practical clinical information on a full continuum of cases—from gunshot wounds to tumors Over 500 high quality illustrations and graphics, many redrawn for this edition, delineate injuries and reconstruction techniques Richly illustrated atlas of flaps with nearly 140 new color photos details diverse approaches, including pearls and pitfalls Handy tables clearly outline rehabilitation protocols, classification, and zones of injury The text provides an invaluable framework to help both surgical residents and veteran upper extremity surgeons achieve optimal outcomes in their patients. "Promotes client-centered care, encouraging practitioners to match clients' motor capabilities, goals, and interests to specific, challenging tasks. Comprehensive and practical, this manual guides allied health practitioners in every aspect of task-specific training"-- Emphasizes the development of clinical reasoning skills, describing the components of the evaluation process and addressing how to decide what to evaluate. Covers a broad array of common diagnoses seen in hand therapy, including shoulder and elbow disorders, peripheral nerve problems, wrist and hand fractures, tendonitis and tendonsis, finger sprains and deformities, tendon injuries, arthritis, burns, infections, ganglion cysts, stiffness, Dupuytren's, - Prepared by preeminent hand surgeons and a master medical illustrator, this text/atlas is the most comprehensive reference on surgical anatomy of the hand and upper extremity. It features 500 full-color photographs of fresh cadaver dissections and 1,000 meticulous drawings that offer a realistic, detailed view of the complex anatomy encountered during surgical procedures. The text is thorough and replete with clinical applications. A Systems Anatomy section covers the skeleton, muscles, nerves, and vasculature. A Regional Anatomy section demonstrates anatomic landmarks and relationships, surgical approaches, clinical correlations, and anatomic variations in each region. An Appendix explains anatomic signs, syndromes, tests, and eponyms. Written by leading experts in the fields of pediatrics, orthopedic surgery and plastic and reconstructive hand surgery, *Congenital Anomalies of the Upper Extremity* encompasses the current knowledge of genetic and molecular causes of and surgical and non-surgical treatment for, deformities of the hand. The book covers the many variations of congenital anomaly encountered in the clinical setting. Embryology, classification, incidence and anesthesia considerations are discussed first, followed by physical medicine, rehabilitation and therapy management, including psychological considerations, for children living with these conditions. Failures of formation and differentiation of the fingers and hand plate, duplication, and overgrowth, as well as other generalized anomalies, are then presented in detail, including symbrachydactyly, syndactyly, Apert syndrome, polydactyly, amniotic band syndrome and Madelung deformity, among others. Complete with plentiful photographs and illustrations to guide the clinician in preparing for and performing the necessary treatments, this is an essential book for hand surgeons, orthopedists and plastic surgeons. "Entry-level occupational therapists are expected to have fundamental skills in splinting theory, design, and fabrication. As occupational therapy students, they gain these skills through didactic courses, fieldwork, or observations. *Orthotic Intervention of the Hand and Upper Extremity: Splinting Principles and Process, Second Edition*, delivers just that. Instructors need materials to teach students how to apply theory to practice in the area of splinting. This book provides instructors with the pedagogical framework necessary to help students, inexperienced therapists, and expert hand therapists make the right decision whether to fabricate a thermoplastic or neoprene splint, cast, tape, or choose an over-the-counter splint for their patient. This detailed and easy-to-use reference demonstrates splint fabrication techniques and related interventions for the upper extremity and highlights anatomical and biomechanical principles specifically related to splints"--Provided by publisher. Arthroplasty of the upper extremity is an established surgical intervention in the management of arthritis of the elbow, wrist and hand. The anatomy, kinematics and demands of the elbow, wrist, thumb CMC, and finger MCP and PIP joints pose unique surgical challenges. Implant design considerations are important in providing a joint that mimics the native joints and maximizes survivorship. However, outcomes are less predictable in these upper extremity joints when compared to the hips and knees. Each joint also carries its own set of potential complications and salvage options for revision and failed arthroplasty. This unique text helps the orthopedic and hand surgeon understand the surgical approaches, unique anatomic considerations, and both the historical and current designs related to each respective joint, enabling the surgeon to better appreciate the benefits and limitations of each arthroplasty. Presenting the current state of the art, the seven sections proceed anatomically from the elbow to the fingers, with each section comprised of three thematic chapters discussing implant design considerations, primary arthroscopy techniques and revision arthroscopy techniques, including non-surgical options for treating these often difficult problems. This consistent approach, accompanied by plentiful figures, radiographs and intraoperative photos, ensures that this will be a user-friendly resource for orthopedic and hand surgeons, residents and trainees. With the combined expertise of leading hand surgeons and therapists, *Rehabilitation of the Hand and Upper Extremity, 6th Edition*, by Drs. Skirven, Osterman, Fedorczyk and Amadio, helps you apply the best practices in the rehabilitation of hand, wrist, elbow, arm and shoulder problems, so you can help your patients achieve the highest level of function possible. This popular, unparalleled text has been updated with 30 new chapters that include the latest information on arthroscopy, imaging, vascular disorders, tendon transfers, fingertip injuries, mobilization techniques, traumatic brachial plexus injuries, and pain management. An expanded editorial team and an even more geographically diverse set of contributors provide you with a fresh, authoritative, and truly global perspective while new full-color images and photos provide unmatched visual guidance. Access the complete contents online at www.expertconsult.com along with streaming video of surgical and rehabilitation techniques, links to Pub Med, and more. Provide the best patient care and optimal outcomes with trusted guidance from this multidisciplinary, comprehensive resource covering the entire upper extremity, now with increased coverage of wrist and elbow problems. Apply the latest treatments, rehabilitation protocols, and expertise of leading surgeons and therapists to help your patients regain maximum movement after traumatic injuries or to improve limited functionality caused by chronic or acquired conditions. Effectively implement the newest techniques detailed in new and updated chapters on a variety of sports-specific and other acquired injuries, and chronic disorders. Keep up with the latest

advances in arthroscopy, imaging, vascular disorders, tendon transfers, fingertip injuries, mobilization techniques, traumatic brachial plexus injuries, and pain management See conditions and treatments as they appear in practice thanks to detailed, full-color design, illustrations, and photographs. Access the full contents online with streaming video of surgical and rehabilitation techniques, downloadable patient handouts, links to Pub Med, and regular updates at www.expertconsult.com. Get a fresh perspective from seven new section editors, as well as an even more geographically diverse set of contributors. There is already a wealth of literature covering cumulative trauma disorders and medical management, as well as the biomechanics of manual material handling and lower back problems. However, despite a spike in the number of work-related musculoskeletal disorders (WRMSDs) in the upper limbs--due to a sharp increase in the amount of computer-related jobs--few if any books have focused exclusively on WRMSDs, until now. Biomechanics of the Upper Limbs: Mechanics, Modeling and Musculoskeletal Injuries, Second Edition offers vital information and tools to improve analysis of external forces and their effects on the human body. This can help ergonomists better understand job stressors and the role they play in the development of disorders, enabling them to modify the work environment and educate practitioners to better control harmful situations. Using the author's medical and engineering expertise to distill essential subject matter and useful technical data, this comprehensive text explores: Biomechanics of the upper limbs and the motor control system The structure and physiology of the human musculoskeletal and neuromuscular systems Recent research findings and solutions to various ergonomic problems Models of various components of the neuromuscular systems, as well as larger systems in the upper limbs Risk factors for disorders and tools used to identify their causes Designed as a textbook for a typical semester-long graduate-level engineering or kinesiology course, this book includes a link to an ancillary website that offers materials such as PowerPoint® slides, sample exams, and an instructor's manual with complete solutions. It also serves as a practical, up-to-date, engineering-oriented resource for researchers, industrial ergonomists, industrial hygienists, and medical professionals who require supplementary material. In addition to complementary radiographic imaging, the physical exam is an essential diagnostic element for the orthopedic surgeon. As such, learning to perform this exam thoroughly is of utmost importance to medical students, residents and interns on an orthopedic rotation and in later practice. This practical text succinctly presents all of the necessary information regarding the physical examination of the upper extremity. The hand, wrist, elbow and shoulder are discussed in dedicated thematic sections, with each section comprised of three main chapters. The initial chapter describes the musculoskeletal anatomy and function of the joint, presenting the tests themselves along with the rationale for performing them. The second chapter presents the systematic examinations carried out in every case, and the third chapter describes examinations for specific conditions relating to the joint, including tendinopathies, osteoarthritis, neurological conditions, deformities, and more. Plentiful bullet points and color images throughout the text describe and illustrate each test and physical sign. Convenient and user-friendly, Handbook of Upper Extremity Examination is a valuable, portable guide to this all-important diagnostic tool for students and practitioners alike. In this expanded second edition of Hand Rehabilitation, Susan Weiss and Nancy Falkenstein give us a unique approach to critical thinking in hand therapy [Foreword]. This new resource instructs students and clinicians in splint fabrication techniques and related interventions for the upper extremity, and highlights anatomical and biomechanical principles specifically related to splints. It defines the purpose of splints, and offers associated indications and precautions. Intelligently organized and generously illustrated, each chapter includes clinical hints, and a specific section dedicated to splinting for a spectrum of diagnoses and populations. Indexes provide a user-friendly cross-reference that lists splints by name and splints by diagnosis to assist the reader in usage of the manual. Also provides insight into the clinical experience with emphasis on containing cost while maximizing time efficiency. Professional hands-on splinting workshops are going on for all levels of experience--visit cj-education.com to find out if these authors are coming to your area! This expanded edition text offers updated information and the addition of 100 extra photographs and line drawings. Updated information includes the basic concepts and principles of splint design and the importance of communication for creating effective splinting techniques. "Hand and upper extremity anatomy forms the basis of a comprehensive understanding of the physiology and pathologic conditions which influence function of the upper limb. Importantly, the intricate relationships and interactions between these diverse tissues define our unique capabilities for human function. The study of anatomy is analogous to the study of art; one must understand anatomy in order to appreciate it--in order to understand anatomy, however, one must appreciate its complexity of form and function, not withstanding its variations and anomalies. In an era where time spent in the anatomy laboratory has been de-emphasized within the medical education curriculum, an appreciation for anatomic relationships gained from a hands-on experience may suffer; a lack of awareness for anatomic detail may translate into the unfortunate consequence of a less detailed clinical assessment or a compromised treatment plan"--Provided by publisher. Orthotic Design and Fabrication for the Upper Extremity: A Practical Guide by Drs. Katherine Schofield and Deborah Schwartz is a unique guide that illustrates orthotic design and fabrication in a clear step-by-step fashion by presenting printed textual material along with instructional videos. The first chapters lay the foundation for orthotic design and detail the anatomical knowledge and background information that is required before molding orthoses on clients. Each chapter explores a specific part of the upper extremity, describes several common clinical diagnoses, and highlights typical orthoses that might be utilized to immobilize and protect it. Together, these chapters communicate core, foundational knowledge for the use of orthoses as an intervention in occupational therapy practice. The instructional videos also emphasize the application of biomechanical, anatomic, and clinical constructs in orthotic design, fabrication, and evaluation. The textbook and video content work together enabling students and entry-level practitioners to learn with visual and versatile resources. University faculty members will gain access to ample activities and exercises to augment their classroom and laboratory teaching. This allows for more efficient use of time and appeals to the learning styles of current and future students. This text includes: Chapters devoted to specific type of orthosis for parts of the upper extremity linked to step-by-step instructional videos Case studies to promote a grasp of the knowledge and application to the development of clinical reasoning skills Multiple choice and short answer review questions and activities for most chapters Presentation of current evidence to support the use of the specific orthoses in clinical practice Patterns that can be replicated and check out sheets to critique each orthosis The combination of text materials and instructional video material makes Orthotic Design and Fabrication for the Upper Extremity: A Practical Guide a uniquely valuable resource for occupational therapy students, new graduates, and novice clinicians. Written by physiatrists, prosthetists, 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 easy-to-follow 'cookbook' guides hand surgeons and radiologists through the process of diagnosis and treatment Mobile ultrasonography is revolutionizing the way hand surgery patients are managed. Ultrasound of the Hand and Upper Extremity: A Step-by-Step Guide is the first book on this field that is intended for practicing hand surgeons and the radiologists who work with them. A stepwise, practical guide specially designed for quick reference, with bullet-point text, informative figures, and detailed clinical examples, this book and its accompanying videos are ideal for the busy clinician. Edited by John R. Fowler and Nandkumar M. Rawool, with contributions by other experts with long experience in ultrasound techniques, this book features a reader-friendly chapter structure that describes the appropriate setup, anatomic landmarks, probe and patient positioning, comparative normal anatomy, relevant pathologic anatomy, and available injection techniques for 14 anatomic areas and conditions. Key Highlights Full-color photographs to depict proper patient and probe positioning for optimal results Expert advice on ultrasound machine settings for achieving the best images in various structures Labeled ultrasound images of deformities and normal anatomy for comparative clinical use Thirteen instructive videos highlight ultrasound techniques for a range of structures and pathologies This unique guidebook for upper limb ultrasound methods is the essential primary reference for all practicing hand surgeons and residents, as well as orthopedic surgeons, sports medicine specialists, and radiologists who must provide their patients with unrivaled care using state-of-the-art equipment and techniques. Full-color, step-by-step instruction in the treatment of injuries and disorders of the upper extremity from the shoulder to the fingertip. With nearly 100 outstanding international contributors and more than 1200 full-color photographs and illustrations, Operative Orthopedics of the Upper Extremity offers the latest, cutting edge treatment of the upper extremity from the shoulder to the fingertips. The book covers injuries and disorders of the hand, carpus, distal radius, distal radioulnar joint, forearm, elbow, and shoulder. The chapters are organized both by level and anatomic structure starting with repair or reconstruction of the bone, joint and ligaments and progressing to the nerves, tendons and soft tissue. Each chapter includes the indications, contraindications, surgical techniques and postoperative management oftentimes by the originators of the technique, in addition to numerous pearls and possible pitfalls. When reconstruction is not possible, a section on salvage procedures covers the suitable options. Operative Orthopedics of the Upper Extremity provides a one-stop resource for the treatment of injuries of the upper extremity. It provides essential material for both certification and recertification and will prove to be invaluable to both the entry level surgeon as well as the seasoned operator. Lippincott® Connect Featured Title Purchase of the new print edition of this Lippincott® Connect title includes lifetime access to the digital version of the book, plus related materials such as videos and multiple-choice Q&A and self-assessments. Companion to the comprehensive hand therapy text, Orthotic Intervention for the Hand and Upper Extremity: Splinting Principles and Process This comprehensive manual is the perfect resource for use in the classroom, during labs, and in clinical practice for both occupational and physical therapists. Additionally, it is a great reference for those studying to become a Certified Hand Therapist (CHT). The Fabrication Process Manual complements the main text, Orthotic Intervention for the Hand and Upper Extremity: Splinting Principles and Process, and clearly presents step-by-step instructions for the fabrication of the orthoses as well as providing alternative orthotic treatment options. The various orthoses and techniques presented allow the therapist to tailor each orthosis for the specific patient. Full-color photographs of actual patients provide hundreds of new clinical examples demonstrating the direct link to clinical practice. Larger Format of manual allowing for larger images and patterns. Manual is organized by Immobilization, Mobilization, Restriction and Non-articular Orthoses. Includes comprehensive step-by-step directions for more than 60 orthoses in addition to dozens more orthosis options included within the Clinical and Expert Pearls. Expanded Clinical Pearls and addition of Expert Pearls generously shared by dozens of hand therapy experts from around the world including unique orthotic ideas, tips, and material usage. Printable patterns available online to allow for easy accessibility and ability to resize for lab/clinic use. Lippincott® Connect features: Lifetime access to the digital version of the book with the ability to highlight and take notes on key passages for a more personal, efficient study experience. Carefully curated resources, such as interactive diagrams, video tutorials, organ sounds, and self-assessment, all designed to facilitate further comprehension. Lippincott® Connect also allows users to create Study Collections to further personalize the study experience. With Study Collections you can: Pool content from books across your entire library into self-created Study Collections based on discipline, procedure, organ, concept or other topics. Display related text passages, video clips and self-assessment questions from each book (if available) for efficient absorption of material. Annotate and highlight key content for easy access later. Navigate seamlessly between book chapters, sections, self-assessments, notes and highlights in a single view/page. Completely revised to meet the demands of today's trainee and practicing plastic surgeon, Hand and Upper Extremity, Volume 6 of Plastic Surgery, 4th Edition, features new full-color clinical photos, dynamic videos, and authoritative coverage of hot topics in the field. Editor-narrated video presentations offer a step-by-step audio-visual walkthrough of techniques and procedures in plastic surgery. Offers evidence-based advice from a diverse collection of experts to help you apply the very latest advances in hand and upper extremity surgery and ensure optimal outcomes. Provides updated coverage of: Pediatric and adult hand surgery, nerve transfers, tendon repair, and functional prosthetics. Includes brand-new color clinical photos, videos, and lectures. Presenting step-by-step procedures written by experts in the field, this comprehensive clinical guide discusses the diagnosis (electrodiagnostic and ultrasound) and management of compressive neuropathies of the upper extremity. Compressive (or compression) neuropathy, also known as entrapment neuropathy or trapped nerve, is a common condition of the upper extremity in which the nerves of the arm – median, ulnar and radial being the most common – are compressed, causing pain and discomfort as well as possible pathological and anatomical changes. Carpal and cubital tunnel syndrome are the most well-known and treated, with nerve release and decompression surgeries being the usual treatment, though the variety of neuropathies and management strategies goes beyond these conditions. Chapters included describe in detail the latest, cutting-edge management strategies for the various manifestations of compressive neuropathy of the hand and wrist – carpal tunnel syndrome, cubital tunnel syndrome, ulnar nerve syndrome, radial tunnel syndrome, pronator teres syndrome, Wartenberg's syndrome, thoracic outlet syndrome and suprascapular neuropathy – as well as revision carpal and cubital tunnel surgical treatment options. Plentiful intraoperative photos and detailed illustrations, along with clinical case material and pearls and pitfalls, make this the ideal resource for orthopedic, hand and plastic surgeons aiming for the most optimal outcomes. Demonstrating current management techniques for traumatic fractures and dislocations of the upper extremity, this atlas utilizes a practical, how-to structure, discussing philosophy, approach, patient positioning, prepping, draping, and surgical techniques for each type of injury. Generously illustrated with intraoperative photos, the chapters of this atlas are arranged by anatomic location, from the clavicle and shoulder down to the fingers, with each chapter briefly describing the thought processes involved in choosing surgical interventions and applied anatomy approaches, fixation selections, and techniques. Actual case examples, cadaver photos and plentiful radiographs illustrate the text for a strongly visual presentation, and a list of "Eglsederisms" - pithy bits of advice for residents and veteran surgeons alike - set the stage for a highly demonstrative resource for orthopedic and trauma surgeons, residents and fellows.