Principles Of Deformity Correction

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this exercise workbook accompanies principles of deformity correction a comprehensive text on the analysis planning and treatment of lower limb deformities in an accessible and instructive format in addition to the book which is extensively illustrated to avoid confusion and to leave little to the imagination the planning is further facilitated via the exercise workbook available separately the methods taught are simple and intuitive and require little memorization the set of books are of equal interest to pediatric and adult orthopaedic surgeons

principles of deformity correction is a comprehensive text on the analysis planning and treatment of lower limb deformities in an accessible and instructive format it teaches the analysis planning and methods of deformity correction a foundation of understanding normal alignment is presented using new nomenclature that is easy to remember and can even be derived without memorization the work offers detailed information on deformities and malalignment radiographic assessment mechanical and anatomic axis planning osteotomies and hardware considerations the book is extensively illustrated to avoid confusion and to leave little to the imagination the planning is further facilitated via an exercise workbook and an animated cd rom which are available separately the methods taught are simple and intuitive and require little memorization this book is of equal interest to pediatric and adult orthopaedic surgeons

an international group of renowned surgeons present an outstanding hands on approach to perform correction osteotomies in posttraumatic deformities from the clavicle to the foot most of the content is based on case presentation and each case provides step by step description of case history planning surgical approach osteotomy fixation rehabilitation and finally pitfalls and pearls hundreds of full color pictures precise illustrations and x rays demonstrate the significant steps in deformity corrections long term follow ups demonstrate the efficacy of osteotomies in the treatment of

malunions in the principles part preceding the case presentations relevant theoretical information on posttraumatic deformities and osteotomies operative techniques and fixation methods as well as the formation of a surgical plan is provided this book should convince surgeons to use osteotomies in the treatment of posttraumatic deformities and consider joint reserving techniques in the treatment of posttraumatic osteoarthiritis

now in a completely revised and updated second edition this comprehensive and generously illustrated text highlights both general principles and specific strategies for managing the spectrum of pediatric lower limb deformities it is divided thematically into five sections though any chapter can stand on its own to guide the clinician in specific situations part i covers general principles and techniques including etiology clinical evaluation imaging as well as different surgical methods part ii covering related concepts and management options discusses soft tissue contractures amputations and working in austere and resource challenged settings underlying conditions comprise part iii specific metabolic neuromuscular and tumor related conditions along with arthrogryposis osteogenesis imperfecta and various skeletal dysplasias part iv presents congenital and developmental disorders such as congenital femoral deficiency hemimelias tibial pseudoarthrosis and blount disease while part v rounds out the book with chapters on sequelae related to different etiologies and their treatment new to this edition is the inclusion of invited commentary from additional experts adding further context and clinical pearls additionally ten new chapters have been added including some that are completely rewritten by different authors and other chapters that cover new themes such as patient reported outcome measures setting up a limb deformity practice pin site care and management of bone defects covering all aspects of the management of pediatric lower limb deformities in different practice settings and written by internationally renowned experts in the field this new edition of pediatric lower limb deformities continues to be an invaluable resource for orthopedic surgeons and trainees worldwide

with rapid advancement in technology and materials in total knee arthroplasty tka long term survival and function of the total knee is now more and more dependent on restoring accurate limb alignment precise component position and optimum soft tissue balance proper technique is key to ensuring this and is all the more crucial and challenging to achieve in arthritic knees with severe and complex deformities correction of such knee deformities forms an important part of tka for orthopedic surgeons working in both emerging and developed nations deformity correction in total knee arthroplasty fills the void that exists in treating severe and complex knee deformities and the use of computer navigation in tka it covers the principles of deformity correction and soft tissue balancing in primary tka in an illustrative step wise and algorithmic fashion starting with the initial key step of preoperative planning this book goes on to specifically describe how to deal with different types of deformities encountered in patients who undergo tka varus valgus flexion hypertension rotational and extra articular deformities as well as the stiff knee the unstable knee osteotomies in primary tka and postoperative pain management and rehabilitation this focused how to manual includes plentiful images and clear concise text from authors who have performed thousands of that making it a must have reference for any surgeon unfamiliar or frequently confronted with this type of procedure

the ultimate guide and surgical manual for managing patients with rigid spinal deformities despite attempts to detect and treat spine deformities early in younger and older populations spine deformity surgeons encounter a wide array of complex spine pathologies in patients across the age and pathology continuum corrective osteotomies of rigid spinal deformities edited by world renowned spinal deformity specialists leon kaplan and lawrence g lenke features contributions from an impressive group of global experts the superbly written compendium highlights inherent challenges of managing rigid spine deformities and provides a wide array of safe and optimal treatment solutions thirty four chapters encompass surgical and nonsurgical management strategies for congenital neuromuscular syndrome associated infection and neoplasm related rigid spinal deformities special topics include secondary correction pitfalls and difficulties revision surgeries and surgical and trauma related neurological complications new technologies are covered including computer assisted robotic surgery evaluation and treatment of spinal tuberculosis in adults and children and biological aspects that enhance spinal fusion throughout the text the authors share firsthand pearls gained over many decades of delivering surgical care key highlights the rational

decision making meticulous planning surgical strategies and outcomes presented for each type of spinal deformity reflect the authors extensive clinical and surgical experience step by step methodology for treating rigid spinal deformities including anterior posterior and combined approaches anesthesiological aspects of spine correction in different stages of surgery and the importance of spinal neuromonitoring reader friendly algorithms full color photographs and radiographic images enhance the understanding of underlying pathologies and treatment strategies this is an indispensable diagnostic and surgical manual for advanced spine surgeons who specialize in correcting rigid spinal deformities in pediatric and adult patients spine surgery residents and fellows will also benefit from reading this comprehensive resource

from imaging modalities to anesthesia considerations to intraoperative monitoring techniques this introductory text presents a thorough overview of all key concepts for the accurate diagnosis and successful treatment of spinal deformity the authors cover the principles of sagittal and coronal balance and address the role of flexible versus fixed deformity in treatment planning straightforward explanations of the etiology pathogenesis radiologic and clinical findings differential diagnosis and both surgical and nonoperative treatment options for each disorder provide the reader with the information necessary for handling each clinical situation with confidence highlights more than 400 drawings radiographs and photographs demonstrate pathology of spinal deformities and the techniques to address them coverage of possible anatomical variations of the deformed spine prepares the clinician for managing complex cases discussion of general medical issues including pain management through medication the potential for postoperative pulmonary complications and how to manage metabolic bone disorders a review of the latest technological advances using image guidance and robotics in deformity surgery descriptions of bracing and casting techniques with a brief literature review on outcomes written by a multidisciplinary team of experts this book is invaluable for all beginning and experienced neurosurgeons orthopedic surgeons residents and fellows in those specialties and allied health professionals requiring a comprehensive reference and review cover art illustrator chadi tannoury m d

the goal of this book is to convey the underlying principles and practical information on modern techniques of unilateral external fixation system the first part of the book covers the principles of unilateral corrective techniques in external fixation and includes detailed descriptions of the actual surgical techniques postoperative care management of potential difficulties and complications are also described the second part of the book is composed of 45 case reports demonstrating the use of the heidelberg system in a wide variety of specific congenital and posttraumatic conditions this section uses before and after radiographs and line drawings of how the external fixation equipment is applied to show the benefits of the technique indications and therapy as well as special points unique to each type of case are described tips are provided where appropriate

from the latest imaging technology to the future of spine care this new edition brings you the most important knowledge on evaluations biomechanics bone physiology nerve root pathophysiology bone imaging plain radiography ct and radionuclide bone scan magnetic resonance imaging of the spine pain imaging discography electrodiagnotics differential diagnosis of spinal disorders the aging spine outcomes assessment and guidelines of care impairment and return to work evaluationnonsurgical care pharmacologic care of arthritic and metabolic disorders of the spine manipulative theraphy spinal injections for diagnosis and treatment chronic pain management the pain clinic psychosocial care for spinal disorders spinal cord injury rehabilitation surgical care fractures and dislocations cervical spondylosis discopathy and instability thoracic spondylosis and discopathy lumbar disk herniation lumbar stenosis and degenerative spondylolisthesis lytic and dysplastic spondylolisthesis pediatric spinal deformity adult scoliosis and deformity primary tumors and cord disorders musculoskeletal and metastatic tumors complicationsnew and future developments biologic enhancement of spinal arthrodesis minimally invasive spinal surgery disc replacement prosthetics restoration of spinal cord function developing and future methods for spine care

the commonest peripheral nerve disease in man is leprosy it is estimated that over 12 million people suffer from this disease and about a fourth of them have some deformity however the majority of deformities seen in leprosy are not peculiar to the disease they are also seen in other peripheral neuropathies including trauma and systemic diseases like diabetes the principles of management and surgical treatment of deformities secondary to peripheral nerve disease are very much the same no matter what the cause this comprehensive volume on the subject will therefore be of value to surgeons all over the world not just in countries with a high incidence of leprosy three major chapters of the book deal with correction of the deformities of the face the hand and the foot three other chapters cover related aspects such as pathogenesis and pathology the skin and peripheral nerves complications and secondary disorders complementary changes and rehabilitation illustrations are provided wherever relevant and useful the authors combined experience dates back to the fifties and they have thus been able to overview the development of reconstructive surgery in leprosy from its very inception the result is a fund of information and practical knowledge which will be useful to all surgeons working with patients with peripheral nerve disease

the diagnosis and treatment described in this book is based on the combination of ilizarov technique paley s principle and qinsihe natural reconstruction theory it covers all kinds of lower limb deformities ranging from congenital deformities to acquired deformities the sequelae of poliomyelitis cerebral palsy spina bifida sequelae traumatic sequelae charcot marie tooth disease osteogenesis imperfecta and congenital pseudarthrosis tibia etc there are also lots of clinical tips and tricks such as how to reduce radiation exposure during orthopaedic surgeries how to correct multiple limb deformities in one stage how to balance the dynamic muscle in complex foot and ankle deformities and how to successfully accomplish the surgery of difficult lower limb reconstruction without allogeneic blood transfusion etc it is a valuable reference for orthopaedic surgeons and advanced trainees worldwide who interested in deformity correction and limb reconstruction

presents information on surgical treatments of a range of injuries from complex pelvic and spinal trauma to periarticular fractures and knee dislocations for each injury this title guides the reader from the clinical evaluation through the decision making process and to the surgical procedure

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