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The quintessential guide providing a one-stop roadmap to a neurosurgical career! Neurological surgery is a complex, highly selective specialty. For medical students and residents, navigating a huge array of neurosurgical information can be overwhelming. Neurosurgery Fundamentals by Nitin Agarwal is a portable reference enabling swift assimilation of neurosurgical care essentials. The book starts with a roadmap to a career in neurosurgery. It concludes with Advice from the Masters, featuring invaluable resources and insights from prominent neurosurgeons. Comprehensive technical overviews are provided on the neurological exam, neuroanatomy, neuroradiology, neurocritical care, traumatic brain and spinal cord injury, degenerative and deformity spine, neurovascular surgery, neurosurgical oncology, pediatric neurosurgery, functional neurosurgery, stereotactic radiosurgery, neurological infectious diseases, and interdisciplinary care. Socioeconomic topics include training, licensure, credentialing, and advocacy. Key Features Fundamental diseases, tests, and operative approaches are summarized. Top Hits feature the most salient questions, aiding in retention of knowledge. High-yield resources are highlighted to augment reader identification. Neurosurgical Pearls offer advice from the masters relevant to each chapter. High-quality illustrations, photographs, and

radiographs enrich understanding. Aspiring neurosurgical providers will benefit from the easy-to-digest wealth of information in this concise, yet comprehensive guide.

Surgery of Peripheral Nerves: A Case-Based Approach is a concise, single-volume reference for managing the entire spectrum of peripheral nerve pathologies, from brachial plexus injuries to lower extremity nerve entrapments. It features 57 cases that are grouped in sections by anatomic location of the problem to aid rapid reference to topics of interest, with one additional section that addresses the management of nerve tumors, painful nerve conditions, and other injuries and syndromes. Each chapter provides concise descriptions of case presentation, diagnosis, anatomy, characteristic clinical presentation, differential diagnosis, diagnostic tests, management options, and surgical treatment. Highlights: Case-based format thoroughly prepares the reader for managing various problems in the clinical setting Diagnostic guidelines and management strategies from leading experts in the field of peripheral nerve surgery enable clinicians to confidently handle each stage of patient care Pearls and Pitfalls at the end of each chapter highlight critical aspects of treatment and are ideal for at-a-glance review prior to surgery More than 150 illustrations demonstrate key concepts Suggested readings with brief summaries provide valuable reviews of the

literature This problem-oriented textbook is ideal for clinicians, fellows, and residents in neurosurgery, orthopaedics, plastic surgery, and hand surgery. It also serves as an indispensable reference for specialists in physical medicine and rehabilitation, neurology, emergency medicine, pain management, and physical and occupational therapy.

A comprehensive and user-friendly guide on leveraging OCT for the management of glaucoma

Optical coherence tomography (OCT) is a noninvasive diagnostic imaging modality that enables ophthalmologists to visualize different layers of the optic nerve and retinal nerve fiber layer (RNFL) with astounding detail. Today, OCT is an instrumental tool for screening, diagnosing, and tracking the progression of glaucoma in patients. *Optical Coherence Tomography in Glaucoma* by renowned glaucoma specialist Jullia A. Rosdahl and esteemed contributors is a one-stop, unique resource that summarizes the clinical utility of this imaging technology, from basics to advanced analyses. The book features 14 chapters, starting with introductory chapters that discuss development of OCT and its applications for visualizing the optic nerve and macula. In chapter 5, case studies illustrate OCT imaging of the optic nerve, RNFL, and macula in all stages of glaucoma, from patients at risk to those with mild, moderate, and severe diseases. The next chapters cover the intrinsic relationship between optic nerve

structure and function, the use of structure–function maps, and examples of their relationship, followed by a comparison of commonly used devices and a chapter on artifacts. Anterior segment OCT is covered next, followed by chapters covering special considerations in pediatric glaucomas and in patients with high refractive errors. The final chapters cover innovations in OCT on the horizon including OCT angiography, swept-source OCT, and artificial intelligence. Key Highlights Illustrative case examples provide firsthand clinical insights on how OCT can be leveraged to inform glaucoma treatment. In-depth guidance on recognizing and managing artifacts including case examples and key technical steps to help prevent their occurrence. Pearls on the use of OCT for less common patient scenarios such as pediatric glaucomas and high refractive errors. Future OCT directions including angiography, swept-source, and the use of artificial intelligence. This practical resource is essential reading for ophthalmology trainees and ophthalmologists new to using OCT for glaucoma. The pearls, examples, and novel topics in this book will also help experienced clinicians deepen their knowledge and increase confidence using OCT in daily practice. Tinnitus and sound disorder case studies provide invaluable guidance on enhancing quality and scope of patient care Tinnitus affects nearly one in 10 people around the world and tinnitus-related disabilities are considered among the most common chronic

conditions reported. Historically, many patients with these conditions have been ignored, misunderstood, or misguided by medical, audiological, and/or online communities. *Tinnitus and Sound Sensitivity Casebook* by renowned audiologists and educators Suzanne H. Kimball and Marc Fagelson provides evidence-based strategies for clinical management of patients with tinnitus as well as sound intolerance disorders, based on a diverse array of case studies drawn from clinics. The book is divided into three sections and 29 chapters, with insightful clinical pearls from 24 multidisciplinary authors. The first section includes 15 cases on a full spectrum of underlying medical conditions, patterns of occurrence, and tinnitus with normal hearing, followed by two cases covering hyperacusis associated with an acoustic shock and diplacusis. Section two details psychological correlates for tinnitus and disorders of sound intolerance, with practical treatment strategies and coping skills for misophonia, fear hyperacusis, hyponatremia, pediatric cases, psychogenic tinnitus and dizziness, and PTSD. The final section, "Additional Considerations," includes two areas of practice currently growing in importance: patients with COVID who notice hearing changes and the co-occurrence of sound intolerance with normal pure-tone thresholds. Key Highlights Background, references, and examples of specific conditions and interventions support audiology's scope while

providing options for the practitioner who works with an otherwise underserved patient population Each case study demonstrates the complexity of audiologic rehabilitation associated with tinnitus and disorders of sound tolerance, including challenging and unsuccessful outcomes Clinical history, test results, diagnosis, outcomes, questions, answers, items to support both patient and clinician self-efficacy, and key points enhance acquisition of knowledge, while encouraging problem-solving skills This is an important textbook for every graduate course in the area of clinical audiologic practice that addresses patient management related to tinnitus and sound tolerance. It is also a must-have reference for practicing clinicians to improve management and outcomes of patients with tinnitus, hyperacusis, and misophonia.

Brain Mapping

The Surgical Handbook

Minimally Invasive Spine Surgery

Tinnitus Treatment

Spectroscopic Methods in Organic Chemistry

Tricks of the Trade

Surgery of Peripheral Nerves

Plastic surgeons may go through extensive training to be excellent clinicians, but they often end up learning how to practice the business of medicine through trial and error. This unique book, targeted specifically at plastic surgeons and other general practitioners, seeks to address this glaring weakness; it offers many different viewpoints while covering a wide ranging

multitude of topics that includes the latest know-how on how to build one's website and office surgery suite, track his practice for increased productivity, and develop medical inventions and a medspa. The Business of Plastic Surgery also features notable authors like Michael Longaker, Robert M Pearl, and Mark Gorney.

This clinical book + videos embraces the spectrum of craniofacial surgery Written by the world's foremost experts, Atlas of Operative Craniofacial Surgery with its accompanying videos is a unique resource that offers the reader a succinct yet comprehensive guide to performing craniofacial operations. In each chapter, renowned specialists share their strategies for selecting patients, executing effective preoperative planning, comprehending detailed operative techniques, instituting postoperative care best practices, dealing with possible complications, and much more. Key Features The wide array of covered topics includes the cranial vault, reconstruction of the facial bones, orbital fracture repair, rhinoplasty, maxillary and mandibular operations, ear reconstruction, and cleft lip and palate repair Over 1400 intraoperative photos and 300 drawings guide the reader through each operative procedure in a step-by-step fashion Emphasis on how the procedures are performed, rather than on theory Includes case studies that show the results of the discussed techniques Accompanied by 20 surgical technique videos Presented in cooperation with the American Society of Maxillofacial Surgeons (ASMS) and the American Society of Craniofacial Surgery (ASCFS), this beautiful atlas is essential for all those involved with craniofacial surgery, including craniofacial surgeons, craniofacial surgery fellows, maxillofacial residents, and others. The state-of-the-art guide to lower extremity reconstruction from international experts "I loved witnessing two generations of surgeons working together to capture it all: origin, evolution and progress, state of the art, and the future in one beautifully-crafted and exciting book. This is no doubt a must-read and must-have

book." – from the Foreword by Fu-Chan Wei, MD Adequate evaluation of lower limb wounds for salvage requires an itemized assessment of vascular, osseous, soft tissue, and functional deficits. Lower Extremity Reconstruction: A Practical Guide by renowned reconstructive surgeons and perforator flap masters J.P. Hong and Geoffrey G. Hallock presents an orthoplastic approach to this growing and challenging area of microsurgery. Throughout the well-illustrated text and videos, an impressive cadre of international surgeons share pearls and insights, including esoteric knowledge and step-by-step demonstration of techniques with pertinent case examples. This unique guide presents a practical, visual, and stepwise approach to learning and mastering a full array of flap and microsurgery approaches for traumatic, dysvascular, metabolic, and oncologic lower limb defects. Organized into 26 topic-specific chapters, the book covers a full spectrum of lower extremity topics—from wound prep, timing, closure alternatives, and therapy, to soft-tissue tumors and a new concept in drop foot treatment. Numerous videos demonstrate how surgeons can leverage workhorse options to prevent chronic non-healing wounds or amputations and achieve the goal of limb salvage. Key Highlights Lower extremity soft-tissue reconstruction techniques using local muscle and perforator workhorse flaps Bone salvage and restoration techniques, including vascularized bone grafts Diabetic foot management with in-depth discussion of the SCIP flap and perforator-to-perforator concept Rationale for partial and subtotal foot amputation 27 videos and more than 600 illustrations enhance understanding of microsurgical interventions With insights from top microsurgeons on how to achieve the best outcomes for patients with lower limb defects, this is a must-have resource for plastic and orthopaedic surgeons, especially specialists who treat patients at trauma centers.

Practical Digital Mammography provides breast imagers with a systematic, problem-solving approach to detecting and assessing the most subtle signs of breast cancer malignancies. The book opens

with concise coverage of the fundamentals, including physics, equipment, and normal anatomy. Separate chapters provide straightforward descriptions and clear illustrations of the digital mammographic characteristics of benign and malignant calcifications, masses, asymmetry, and architectural distortion. The author presents the clinical workup of the most difficult mammographic findings and provides recommendations about the optimizing the techniques for localizing each finding. Features: 103 illustrated cases help readers gain a firm understanding of how to interpret digital mammographic findings Summary tables provide succinct descriptions of digital mammographic findings correlated to the American College of Radiology's BI-RAD assessment categories Practical discussion of the advantages of digital mammography over screen-film techniques and equipment enables readers to compare technologies and systems Pearls and Pitfalls review key points and considerations With its broad coverage and emphasis on clinical techniques, this book is indispensable for radiologists, residents, and technologists confronting the challenges of a digital mammographic imaging center.

Basic Otorhinolaryngology

The Business of Plastic Surgery

Neurosurgery Oral Board Review

A Case-Based Approach

Optical Coherence Tomography in Glaucoma

Head and Neck Cancer

FESSH Instructional Course Book 2020

A patient-focused practical handbook for rapid acquisition of broad surgical knowledge The Surgical Handbook by Michael Karsy and esteemed colleagues addresses training gaps by exposing early trainees, medical students, residents, advanced practice providers, and non-specialists to

a diverse array of surgical subspecialty diseases and acute management topics. The impressive breadth of content presented in this resource reflects multidisciplinary contributions. The text covers far more than existing medical handbooks, while featuring concise distillation of key points conducive to learning. The book is organized by 16 sections starting with general perioperative and operative management of topics that apply to all surgeons, such as critical care, trauma, and general surgery. Subsequent chapters encompass a full spectrum of surgical specialties—from vascular and cardiothoracic—to neurosurgery and orthopaedics, as well as handy evidence-based reference guides. The focused collection of topics within each section serves as a useful resource for learning about management of specific diseases and also a starting point for self-directed learning. Key Highlights Bullet points, illustrations, diagrams, and figures enhance rapid acquisition of knowledge Tables on acute diagnosis and management of common inpatient scenarios such as electrolyte and acid/base disturbances provide easy-to-use tools Clinical references include practice pearls on trauma management, key medications for common inpatient conditions, acute patient events (e.g. cardiac and stroke), anesthesia and intubation medications, and preoperative and post-anesthesia issues This backpack companion will benefit medical students

and junior surgical residents during rotations and clerkships and help early-career clinicians gain insights into timely disease recognition, initial management, surgical risks, and when to make referrals.

This reference work presents the state-of-the-art in the field of click chemistry, collecting the most useful, practical, and reliable methods. Click chemistry is a discipline that has grown rapidly since the introduction of this term by Barry Sharpless and Huisgen approximately two decades ago. Initially, click reactions mostly involved copper-catalyzed azide-alkyne cycloadditions and their applications to connect molecules, but gradually new types of click reactions were developed which also allowed a much wider range of applications throughout the chemical, biological, and materials sciences. This volume provides an overview of the most widely used click reactions and their scope and limitations. Written by pioneers and leaders in the field and including representative applications and experimental procedures. Newcomers to the field are enabled to instantly apply these reactions in synthesis.

Remarkable atlas provides exceptionally detailed, clinically relevant anatomic knowledge! Thieme Atlas of Anatomy: Internal Organs, Third Edition, Latin Nomenclature, by renowned educators Michael Schuenke, Erik Schulte, Udo Schumacher, along

with consulting editors Wayne Cass and Hugo Zeberg, expands on prior editions with increased detail on anatomic relationships of inner organs, and the innervation and lymphatic systems of these organs. Organized by region, the book features 10 sections starting with an overview on body cavities. Subsequent sections cover the cardiovascular, blood, lymphatic, respiratory, digestive, urinary, genital, endocrine, and autonomic nervous organ systems. Regional units covering the thorax and abdomen and pelvis begin with succinct overviews, followed by more in-depth chapters detailing the structure and neurovasculature of the region and its organs. Key Features Labels and anatomic terminology are in Latin nomenclature 1,375 images including extraordinarily realistic illustrations by Markus Voll and Karl Wesker, diagrams, tables, and descriptive text provide an unparalleled wealth of information about internal organs 21 fact sheets provide quick, handy references summarizing salient points for each organ Online images with "labels-on and labels-off" capability are ideal for review and self-testing This visually stunning atlas is an essential companion for laboratory dissection and the classroom. It will benefit medical students, internal medicine residents, and practicing physicians. The THIEME Atlas of Anatomy series also includes two additional volumes, General Anatomy and Musculoskeletal System and Head, Neck, and

Neuroanatomy. All volumes of the THIEME Atlas of Anatomy series are available in softcover English/International nomenclature and in hardcover with Latin nomenclature.

A unique how-to guide on surgical management of strabismus from top experts in the field! Strabismus correction is the third most common ophthalmic surgery in the US, with 1.2 million procedures performed each year. Strabismus Surgery by renowned pediatric ophthalmologist Irene Ludwig provides comprehensive coverage of strabismus treatment – featuring state-of-the-art techniques based on recent anatomical research and discoveries. Throughout the text and accompanying videos, an impressive group of contributors share clinical pearls and firsthand knowledge. Recent research shows that strabismus has a mechanical etiology more frequently than previously thought, and that by directly correcting the mechanical defects, more targeted correction is possible than with traditional approaches. Accordingly, the book is organized by mechanism rather than strabismic deviations and patterns. Presented in four parts, each of which is further delineated by sections, this unique textbook includes 36 chapters starting with the fascinating history of strabismus surgery and concluding with future possible treatments. Key Highlights New surgical techniques designed to correct muscle displacements and muscle defects

related to abnormalities of the extraocular muscle pulleys and intermuscular bands Recognition and repair of stretched scar and flap tear A section dedicated to CNS-related causes of strabismus discusses state-of-the-art surgical approaches for conditions including nystagmus and cranial nerve palsies A comprehensive summary of injection techniques using botulinum toxin and bupivacaine to correct strabismus, particularly in otherwise inoperable conditions Ninety strabismus surgery videos demonstrate a full spectrum of basic to advanced techniques Remarkable illustrations beautifully capture the complex anatomy of the eye muscles and pulleys The mechanistic approaches described in this outstanding resource will help trainees and seasoned ophthalmologists achieve more precise and lasting results.

A Step-by-Step Learning Guide

A Primer

Atlas of Anatomy, Latin Nomenclature

Plastic Surgery Review

Atlas of Operative Craniofacial Surgery

Indications and Techniques

Internal Organs (THIEME Atlas of Anatomy), Latin Nomenclature

[Four stars] Could not be published at a better time... superb illustrations, well-referenced text... technique insights... not only a superb book, but also one with historical significance... unparalleled in the book

literature on aneurysm clipping. Doodys Review Seven Aneurysms: Tenets and Techniques for Clipping, a Finalist in the 2012 IBPA Benjamin Franklin Awards, combines the instructive nature of a textbook with the visual aspects of an atlas to guide readers through the surgical principles, approaches, and techniques they need to dissect and clip cerebral aneurysms. Comprised of three concise sections, the book distills the distinguished author's vast experience into a series of easily accessible tutorials presented through clear, systematic descriptions and stunning, full-color illustrations. The first section explains the critical concepts and basic tenets of aneurysm microsurgery followed by a section on the various craniotomies and exposures necessary for successful clipping. The final section covers microsurgical anatomy, dissection strategies, and clipping techniques for each of the seven most common aneurysm types that are the focus of this book. Features: Strategies for handling the seven aneurysms most often seen by neurosurgeons: PCoA, MCA, ACoA, OphA, PcaA, basilar bifurcation, and PICA 383 full-color surgical photographs demonstrate operative techniques; 77 high-quality drawings display anatomy and spatial relationships Succinct text facilitates quick reading and easy reference Clipping remains an essential treatment method for the most frequently encountered aneurysms. This must-have guide will enable neurosurgery residents, fellows, or practicing neurosurgeons to handle the majority of the aneurysms they will encounter with confidence and poise. Thieme congratulates Dr. Eric M. Genden on being chosen by New York magazine for its prestigious 'Best Doctors 2018' list! Head and Neck Cancer:

Management and Reconstruction, 2nd Edition by Eric M. Genden masterfully blends two lauded Thieme books, Reconstruction of the Head and Neck, focusing on defect repair, and Head and Neck Cancer, a multidisciplinary, evidence-based approach to treatment. A significant increase in the incidence of oropharyngeal cancer in the U.S. and other countries, especially among men, is attributed to high-risk subtypes of the human papillomavirus (HPV). HPV associated tonsillar cancer and base of tongue cancer account for 90% of all oropharyngeal squamous cell carcinoma. Internationally renowned authors share the latest knowledge on HPV and other causes of head and neck cancers, from diagnosis to cutting-edge treatments. Thirty richly illustrated chapters feature open and endoscopic ablative techniques for treating a full spectrum of carcinomas and associated defects of the buccal, mandible and composite, laryngeal, hypopharyngeal, and parotid. The book encompasses the nuances of each pathology, step-by-step procedural guidance, clinical pearls, and the latest reconstructive techniques such as 3-D. For each disease, the authors discuss management concepts followed by principles of reconstruction and functional rehabilitation. Special topics include patient surveillance, monoclonal antibodies and immunotherapy, microvascular reconstruction, and minimizing wound complications.

Key Features State-of-the-art management of carcinomas impacting the oral and nasal cavities, salivary glands, oropharynx, hypopharynx, larynx, thyroid, anterior skull base, skin, and more A chapter devoted to transoral robotic management of the oropharynx includes epidemiology, etiology, anatomy, staging, clinical presentation, diagnosis, work-up, and

case studies More than 300 high-quality illustrations and photos elucidate complex anatomy and surgical approaches Concise videos posted online in the Thieme MediaCenter provide insightful hands-on surgical guidance This is the definitive, one-stop resource on the use of ablative and reconstructive approaches for head and neck cancers. Residents, fellows, and veteran practitioners in otolaryngology—head and neck surgery, radiation oncology, and medical oncology will benefit from this comprehensive reference.

Comprehensive resource features state-of-the-art brain mapping techniques and pearls from international recognized neurosurgeons Alfredo Quinones-Hinojosa and Kaisorn Chaichana and coeditor Deependra Mahato Despite advances in imaging techniques to identify eloquent cortical brain regions and subcortical white matter, brain mapping is the only method for obtaining real-time information with high sensitivity and specificity. This groundbreaking technology greatly enhances the neurosurgeon's ability to safely resect challenging lesions located in eloquent areas of the brain. *Brain Mapping: Indications and Techniques* by esteemed neurosurgeons Alfredo Quinones-Hinojosa, Kaisorn Chaichana, and Deependra Mahato, is a comprehensive overview of the most critical aspects of brain mapping from leaders in the field. The book starts with discussion of preoperative aspects, including the history of brain mapping and anatomy of eloquent cortical and eloquent white matter tracts. Subsequent chapters cover perioperative aspects of brain mapping including indirect and direct functional mapping, the role of neurophysiology, awake craniotomy operating room set-up and surgical instruments, and anesthetic considerations. *Diverse awake and asleep brain*

mapping techniques are described for various intracranial pathologies, as well as advances in postoperative recovery of neurological function including physical and speech therapy. Key Features Dedicated chapters focused on essential sensory functions cover speech mapping, asleep motor mapping, awake subcortical language mapping, and visual cortex and visual tract mapping Disease- and region-specific techniques that encompass extra-operative brain mapping for epilepsy, surgery mapping for insular tumors, seizure mapping, and brainstem and spinal cord mapping Clinical pearls on postoperative issues such as rehabilitation, emergence of DBS-evoked functional connectomics, brain neuroplasticity, and radiating eloquent areas High-quality illustrations and videos enhance understanding of brain regions targeted in different mapping techniques This is the most comprehensive resource available to date on brain mapping and surgery in eloquent regions. As such, it is a must-have for neurosurgical residents, fellows, practicing neurosurgeons, and allied healthcare practitioners who treat patients with brain conditions. The new edition of the best-selling *Otoacoustic Emissions: Clinical Applications* provides a thorough review of the complex physiology of the ear and clinical applications of the latest research on otoacoustic emissions. The book features new chapters on such important topics as middle ear function enhanced by reflectance measurements and the use of otoacoustic emissions as a preclinical measure of susceptibility to hearing loss. Accompanying the book is a CD-ROM developed by Dr. David Kemp, Ph.D., which contains animations, movies, and interviews. The CD-ROM serves as an indispensable aid to both teaching and

reviewing key concepts. From physiological phenomena to diagnostic and clinical applications, this book is a complete reference on otoacoustic emissions that will provide graduates in audiology and residents in otolaryngology and otology with all the essential information needed for research and professional practice.

Auditory Brainstem Implants

Basic Science to Clinical Practice

An Illustrated Guide

Facial Plastic and Reconstructive Surgery

Neurosurgery Fundamentals

A Study Guide for the In-Service, Written Board, and Maintenance of Certification Exams

Tinnitus and Sound Sensitivity Casebook

Handbook of Neurosurgery Greenberg Graphics

Incorporated Sagittal Balance of the Spine From Normal to Pathology: A Key for Treatment Strategy Thieme

A practical, hands-on manual for surgeons of all levels on the management of foot and ankle trauma. The approaches are presented in a systematic, casebased format, ranging from simple to more complex cases. It provides step-by-step coverage of a wide range of basic to advanced techniques and procedures for the management of fractures, dislocations and soft tissue injuries of the foot and ankle. While a single case can be approached in a variety of ways, this book seeks to provide important guidelines which apply to most situations that may arise in foot and ankle injuries. It will be of value to anyone providing care for foot and ankle injuries. This book focuses on: General considerations in foot and ankle surgery Clinical and radiographic evaluation Decision-making and options for nonoperative treatment Preoperative planning Surgical approaches

**Avoiding pitfalls Managing risks and complications
Alternative techniques Postoperative rehabilitation Key
features include: Contributions from 48 surgeons from 14
countries 59 detailed cases covering a comprehensive
range of foot and ankle injuries More than 1,650 high-
quality illustrations and images**

**An innovative and invaluable resource for students and
professionals to effectively treat children with speech
sound disorders Children with speech sound disorders
are at higher risk of academic failure, behavioral
difficulties, motor impairments, language delays, and
literacy deficits. Speech Sound Disorders:**

**Comprehensive Evaluation and Treatment by Kelly Vess
provides the necessary tools to use research-based
practices when diagnosing and treating preschoolers.
Sophisticated yet reader-friendly, this interactive book is
certain to revolutionize the methodology therapists use
to treat children with these disorders and globally
improve outcomes. Through a step-by-step process,
readers will learn to critically review and evaluate
research in practice. Guidance is provided on how to
create educationally rich activities to comprehensively
treat children with speech sound disorders. Readers will
not only learn how to integrate research into practice, but
also how to research their own practices to continually
grow as professionals and advance the field. In addition,
invaluable insights are provided on how to make efficient
use of limited therapy time by targeting executive
function, social communication, motor skills, language
skills, and literacy skills while treating children with
speech sound disorders. Key Highlights Readers actively
engage in this robust learning experience by:
Participating in interactive activities with 120 video clips
of diverse populations of preschoolers that clearly**

illustrate evidence-based practices. Critically reviewing current research, objectively evaluating research in practice including their own, and creating evidence-based methods to continually improve evaluation and treatment of preschoolers with varied needs.

Implementing proven evidence-based strategies to improve outcomes within a variety of contexts for diverse groups of preschoolers. Scaffolding children with complex treatment target selection to promote optimal growth at a time when neuroplasticity is at a high level. This unique resource empowers individuals across academic and professional settings to improve the treatment outcomes for preschoolers with speech sound disorders, develop self-efficacy skills, and instill a lifelong love of learning in children.

The definitive guide on migraine surgery from the world's leading authority An estimated 11.7% of the U.S. population or nearly 38 million adults and children suffer from migraine headaches. A severe and highly debilitating type of headache, migraine is the third most common and eighth most disabling disease in the world. People who suffer from migraines often experience neurological symptoms such as nausea and visual disturbances. Despite optimal preventive and abortive pharmacologic treatment, as many as one-third of migraine patients experience refractory headaches and persistent symptoms. Migraine Surgery by world-renowned plastic surgeon Bahman Guyuron reflects significant knowledge gleaned from 17 years of migraine research, pioneering development of nerve decompression surgery, and 2,500 migraine surgery procedures. With contributions from top neurologists and plastic surgeons, this state-of-the-art book is the only one on the market dedicated to the surgical

treatment of migraines. The book begins with a brief history of migraines, followed by a concise overview covering clinical presentation, imaging, abortive, and preventive treatments such as over-the-counter and prescription medications, neurotoxin injections, peripheral nerve blocks, and neuromodulation. Key Highlights Discussion of migraine trigger points including impacted anatomy, detection methods, and trigger point deactivation surgery Surgical treatment of frontal, temporal, rhinogenic, occipital, auriculotemporal, lesser occipital, and nummular migraines including postoperative care and complications Superb illustrations provide visual insights on compressions points, trigger sites, nerves, and the surgical treatment of headaches Extensive high-quality videos posted in the Thieme Media Center delineate life-altering surgical approaches This one-of-a-kind book is the ultimate guide to headache surgery and a must have for resident and veteran plastic surgeons alike. Neurologists and neurosurgeons will also benefit from reading this succinct yet masterful resource.

Strabismus Surgery

Clinical Applications

Otoacoustic Emissions

Sagittal Balance of the Spine

Physiology - An Illustrated Review

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Neck Dissection

The perfect study tool for preparing for your courses or examinations - Physiology - An Illustrated Review's focused presentation and full-color illustrations makes learning the complex information

essential to success easier. Sidebars make connections to underlying concepts in other basic sciences or apply the concepts presented in the clinical setting

.Features: Succinct bullet-point text streamlines studying Hundreds of full-color illustrations reinforce clear explanatory text Numerous tables sum up crucial information for quick review Frequent sidebars build on and integrate learning across the basic sciences and apply this learning to the clinical setting 200 review questions with a rationale for why answers are right or wrong test mastery and help you prepare for exams An additional 200 review questions, all available online allow you to test yourself and get immediate feedback, quickly identifying areas for further study

The first work ever published on this topic, this book summarizes everything you need to know to prepare for the neurosurgery oral examinations. It was designed as a quick and easily accessible reference for residents, with sections on medical management, surgical techniques, and insights of how to study for the test. Key features: - Comprehensive and concise - key facts summarized in 220 pages - Straightforward organization for quick

access and easy memorization of the most vital information - More than 70 illustrations to highlight core concepts - Helpful hints that give you the benefit of the author's experience Here is the convenient study guide that all neurosurgical residents will want available for reliable reference. No other resource is as concise and easy to use. Take advantage of this outstanding tool to ensure your success on the oral boards! A unique resource on glioma leverages advances and firsthand insights to enact meaningful change Glioblastoma (GBM) or glioma is an extremely aggressive and malignant brain tumor, with cell infiltration, rapid invasion, and a high frequency of relapse. The Glioma Book by neurosurgeon Michael Sughrue is a highly personal book – a culmination of two years of writing and more than 1,000 surgeries. It presents a unique viewpoint with the potential to transform the traditional paradigm that too often informs treatment of this universally fatal brain tumor. The book reinterprets the role of the cerebrum and sub-cortex, leverages scientific advances to improve cytoreduction and reduce neurological deficits, and challenges the myth of the "inoperable" glioma. This is the first step-by-step

technical guide focused on aggressively resecting different types of gliomas. The book is logically organized, starting with a foundation of fundamental knowledge, then progressing to practical applications. Chapters focus on the skills necessary to perform glioma surgery, specific techniques, and systematic approaches to gliomas in different brain regions. Numerous case examples illuminate concepts introduced earlier in the book and explain how to perform these procedures About 30 high quality videos posted online provide insightful procedural guidance The role of connectomic imaging in visualizing the cerebrum, and other innovative techniques including awake brain mapping and diffusion tensor tractography Neurosurgeons who embrace the concepts in this book will realize they can change the glioma treatment paradigm. Continually improving techniques and viewing a glioma diagnosis as a battle for a patient's life, rather than an exercise in inevitable failure can impart progress in treating this devastating disease. 100% pure MR imaging of the CNS...comprehensive, up to date, essential The imaging quality achievable in MR imaging today was inconceivable just a few

years ago. No other subdiscipline has evolved so swiftly while placing ever-greater emphasis on fast and accurate results. This book is intended as an indispensable tool at the workplace, as reference for image interpretation, and even for fast orientation during the examination. Adjunct information is provided that fosters the dialogue with referring physicians: for most diseases and conditions there are summaries of epidemiology, clinical findings, pathogenesis and pathophysiology, as well as basic therapy concepts. Special features: A fast-reference guide, even in tricky cases-differential diagnosis made easy, with high clinical relevance Tips for organizing examinations Reference images for comparison with actual images A reference book for looking up equivocal findings More than 1,300 vivid, high-resolution images from the latest generation of scanners Coverage of peripheral nervous system diseases and MR neurography Answers to questions such as: What technique is best for answering a specific question? What does normal anatomy look like, and what landmarks should be sought? Which differential diagnoses should I consider? What are the optimal equipment settings at my

workplace? What therapeutic options does interventional radiology provide? For all radiologists in hospital or office settings, also for neurologists and neurosurgeons.

**Tenets and Techniques for Clipping
Science of Synthesis: Click Chemistry
Handbook of Neurosurgery**

Science of synthesis

**From Normal to Pathology: A Key for
Treatment Strategy**

**Innovative and Classic Approaches
Speech Sound Disorders**

Detailed protocols on tinnitus treatment and therapy Most clinicians have little experience with tinnitus treatments, and are unsure of how to help a patient suffering from the condition. Filling a significant gap in literature, this book offers a variety of in-depth protocols to treat tinnitus. Beginning with a review of several neurophysiological and psychological models of tinnitus, the book goes on to cover evaluation tools; counseling options and methods; treatment with hearing aids, wearable and non-wearable noise generators, and music; tinnitus-related insomnia; quality-of-life issues; and much more.

Highly experienced clinicians give you the practical strategies to apply such therapeutic modalities as cognitive-behavioral therapy, individual and group sessions, sound therapy, habituation therapy, and narrative therapy. You will also find sample handouts to allow for effective communication with patients. With key clinical information for implementing all current therapies, this text is an essential professional tool for audiologists, psychologists, and other practitioners involved in managing otologic disorders. Richard Tyler, PhD, is a professor in the Department of Otolaryngology-Head Neck Surgery and in the Department of Speech Pathology and Audiology at the University of Iowa. Tyler and Sergei Kochkin, PhD recently sat down to talk about the results of a survey they conducted about tinnitus treatment and the effectiveness of hearing aids, which was published in the December 2008 edition of *The Hearing Review*. Click here to learn more and to watch a podcast that examines the survey results: <http://www.hearingreview.com/podcast/files/ST2008>

1218.asp.

Unique textbook explores current and future applications of auditory brain implants Research on the auditory brainstem implant (ABI) has evolved from a highly specialized, narrow field to one involving a wide spectrum of disciplines. Neurotologists, audiologists, otolaryngologists, and neurosurgeons are on the front lines of treatment, while many other specialists play active roles. Auditory Brainstem Implants by renowned ABI experts Eric P. Wilkinson and Marc S. Schwartz is the first dedicated book on ABIs published to date. The state-of-the-art monograph brings together a rich array of materials and resources from an impressive group of pioneering clinicians from around the world. The text starts with introductory chapters encompassing the history and development of ABIs; relevant neuroanatomy and physiology; imaging of the cochlea, cochlear nerve, brainstem, and auditory system; and clinical indications for ABIs. Surgical chapters detail translabyrinthine, retrosigmoid, and retrolabyrinthine approaches,

pediatric applications, auditory midbrain implants, device-specific engineering, and intraoperative monitoring. Auditory testing, performance variables, and results are also reviewed. The final chapters focus on innovative future directions, such as penetrating multisite microelectrodes and the use of optogenetics. Key Highlights In-depth analyses and overviews enable clinicians from different disciplines to expand their armamentarium and solidify current areas of expertise Unique material on the relevant neuroanatomy of brainstem implants improves understanding of ABI challenges and outcomes Description of ABI results in tone languages demonstrates applications in special populations Pediatric topics including evaluation and surgery and implant outcomes from the Hacettepe University team provide invaluable treatment pearls Insightful perspectives on programming, rehabilitation, and outcome assessment in adults enhance knowledge Trainee and practicing otolaryngologists, neurosurgeons,

neurologists, audiologists, and speech pathologists will benefit from reading this comprehensive ABI resource, either cover-to-cover or by consulting specific chapters.

The second edition of this practical guide provides a thorough introduction to the essential concepts of clinical neurology. Coverage includes history-taking; the neurological examination and ancillary tests; topical diagnosis and differential diagnosis of typical syndromes; the diseases of the central nervous system, peripheral nerves, autonomic nervous system, and muscles; epilepsy; and inflammatory diseases such as multiple sclerosis. Central to the book are the lucid structuring of complex contents allowing efficient learning, even without prior knowledge of the subject; and the vital link between theory and clinical practice, with essential information on history-taking, the clinical examination, and additional tests, all supported by informative graphics and appropriate computed tomography or magnetic resonance imaging studies. Key Features: Complete revision of contents

and an enhanced layout from the first edition Brilliant format and structure, making the assimilation of complex information easy and efficient Clear color illustrations and graphics, many new or revised for the second edition Comprehensive tables expand and organize information on many topics Vast clinical experience of two highly respected university teachers

Fundamentals of Neurology: An Illustrated Guide, Second Edition, is the ideal introduction to clinical neurology for medical students, physical therapists, and other professionals involved in patient care.

A comprehensive how-to guide on hand surgery techniques from top experts! Hand surgery requires precision, in-depth expertise, and versatility in order to perform a wide variety of operations on fractures, tendon and nerve conditions, soft tissue injuries, rheumatoid deformities, and congenital defects. Hand Surgery: Tricks of the Trade by renowned Rothman Orthopaedic Institute hand surgeon Pedro Beredjikian and an impressive group of contributors provides a clear road map

on how to perform common hand surgery procedures. Concise step-by-step text enables readers to quickly read, review, and understand the most salient points for each approach. Organized into 14 major sections and 88 chapters, this book encompasses the full spectrum of orthopaedic surgery procedures on the tendons, nerves, bones, and joints of the hand. The text starts with two sections focused on tendon repair and reconstruction. Subsequent sections detail open and endoscopic release and decompression techniques for nerve conditions, fixation and plating of hand and wrist fractures, osteotomy for bone reconstruction, arthroplasty for arthritis, and ligament repair for instability. The last four sections discuss plastic surgery topics including the use of diverse skin grafts and flaps, Dupuytren's disease, arthroscopy, and infections. Key Features Consistent chapter layouts include key principles, indications, contraindications, positioning and anesthesia, important procedural steps, potential complications, and more. Nearly 1,000 illustrations and

photographs provide greater understanding of impacted anatomy. Insightful intraoperative pearls, tips, and tricks provide surgeons with the tools to perform surgeries more effectively and thereby improve patient outcomes. This is a must-have resource for orthopaedic surgery residents, fellows, and hand surgeons. Trainee and experienced plastic surgeons will also benefit from reading this textbook.

Lower Extremity Reconstruction

The Glioma Book

Comprehensive Evaluation and Treatment

Management and Reconstruction

Arthroplasty in Hand Surgery

MR Neuroimaging

Manual of Fracture Management - Foot and Ankle

The definitive evidence-based resource on the diagnosis and treatment of voice disorders Laryngeal Function and Voice Disorders: Basic Science to Clinical Practice by renowned experts Christopher Watts and Shaheen Awan focuses on the latest developments in the assessment and management of voice disorders. New ASHA practice recommendations are included in accessible, digestible, and didactic content. This unique multimedia resource merges historical facts and experiential understanding with recent advances in

scientific knowledge and evidence-based practice patterns. The book includes discussion of the anatomical, physiological, acoustic, aerodynamic, and imaging science informing the understanding of vocal function in normal and disordered states. Major technical components of voice evaluation are covered, including perceptual analyses, acoustic analyses, aerodynamic analyses, and laryngeal visualization. Key Highlights Case studies reinforce evidence-based approaches, clinical relevance, and practical applications Discussion of laryngeal disorders, laryngeal evaluations, laryngeal endoscopy and stroboscopy, and voice rehabilitation Voice and airway impairment evaluations, diagnostic and treatment processes, and options available to speech-language pathologists Guidance on collaborating with medical specialists, in particular otolaryngologists Videos and sound files aid in the understanding of the perceptual and acoustic components of voice evaluation This highly practical reference is a must have for upper-level undergraduate students in communication sciences, graduate students in speech language pathology, and practicing health care professionals. Otolaryngology and neurology residents and physical therapy doctoral candidates will also find this resource beneficial.

The ultimate guide to managing the multifaceted business aspects of a dermatology practice Although board-certified dermatologists provide the best care for their patients, managing a practice and optimizing every facet of the business is a daunting endeavor.

Business acumen is not taught in residency and is the most overlooked aspect of any given practice. The Business of Dermatology, written by esteemed dermatologists Jeffrey S. Dover, Kavita Mariwalla, and an impressive group of experts, provides a rare opportunity to learn about the operations side of practices across the country. Written in an informal tone, this unique book enables readers to be privy to a "40-way chat" with dermatologists whose practices are flourishing. With a vast wealth of information relevant to the business side of a dermatology practice, this remarkable resource fills the gap between the training phase and acquisition of professional confidence. Fifty-five chapters offer insightful, highly practical pearls for everyone—from early-career dermatologists and those in solo-practice to employed physicians in large groups. Even the most seasoned practitioners will benefit from firsthand knowledge and real-world tips shared by physicians who have made their own mistakes trying to get practices off the ground and maintain them. Key Features Written by top dermatologists from the perspective of "if we knew then what we know now..." Organized in a format and style conducive to easy reading, with practical tips to implement immediately Covers all practice-relevant topics, including office space and equipment, managing financials, diverse practice models, human resources, employment considerations, patient issues, pricing, essential surgical tools/supplies, marketing, and much more Top ten lists in each chapter highlighting the key take-home points The Business of Dermatology is an

indispensable, one-stop source for all trainee and practicing dermatologists who need insightful guidance on setting up, organizing, managing, or optimizing their practice.

Winner of the First Prize in ENT at the 2006 BMA (British Medical Association) Medical Book

Competition This is a remarkable introduction to the complex world of otorhinolaryngology, in full color! This beautifully conceived book makes learning ENT almost simple, with its excellent drawings and photographs of the anatomy, physiology, and pathology of this region. Throughout the book connections are made to internal medicine, pediatrics, and surgery. A highly structured text, using boxed information and tables, provides a quick overview of the subject. This is a highly effective introduction to ENT for senior medical students and interns.

A state-of-the-art, reader-friendly reference on hand arthroplasty from renowned global experts Recent research suggests the lifetime risk of hand arthritis may be greater than 40%. Concurrently, advances in small joint arthroplasty have greatly improved the treatment and outcomes in patients following trauma or suffering from arthritis, joint stiffness, and instability of joints in the hand and wrist. Arthroplasty in Hand Surgery: FESSH Instructional Course Book 2020 provides in-depth coverage of the surgical reconstruction or replacement of these joints. Edited by renowned hand surgeons Stephan Schindele, Grey Giddins, and Philippe Bellemère, this unique resource features contributions from an international who's who

of experts. Organized in five sections and 35 chapters, the generously illustrated book encompasses the full spectrum of modern arthroplasty techniques. Section one starts with discussions of the anatomy, biomechanics, and mode of action of the finger and thumb joints and concludes with an intriguing history of hand arthroplasty. Sections two to four cover the latest arthroplasty procedures to treat impaired joints of the fingers (including proximal interphalangeal and distal interphalangeal), thumb, and wrist, respectively. The last section discusses arthroplasty of the distal radioulnar joint. This highly practical resource is ideal for the review and reference of state-of-the-art arthroplasty techniques in hand surgery and essential reading for trainees and practicing orthopaedic surgeons and hand specialists.

Navigating a Successful Career

Migraine Surgery

Brain, Spine, Peripheral Nerves

Seven Aneurysms

A Practical Guide

Laryngeal Function and Voice Disorders

Unique resource provides spine surgeons with the right tools and mindset to perform minimally invasive surgery

Minimally Invasive Spine

Surgery: A Primer by Luis Manuel Tumialán is the

ideal introduction to minimally invasive spine approaches, especially for neurosurgery and

orthopedic residents, fellows, and spine surgeons who want to incorporate minimally invasive

approaches into their practice. The Primer offers

a treasure trove of 3D illustrations and animations that virtually brings the aspiring minimally invasive spine surgeon into the operating room alongside their professor. The text starts with a discussion of open spine surgery versus minimally invasive procedures and the optimal mindset required to convert from one to the other. The book is divided into lumbar, cervical, and thoracic spine sections, and a fourth section dedicated to the fundamentals of fluoroscopy and radiation exposure. The text begins with an overview, history, and evolution of each procedure, followed by a discussion of the anatomical basis for using a minimally invasive approach. Each anatomical section starts with the least complicated surgeries, thereby laying the foundation for more complex procedures discussed in subsequent chapters. The third section focuses on thoracic decompression, nerve sheath tumors in the lumbar and thoracic spine, and management of metastatic disease and intradural extramedullary lesions. Key Features Single-authored text provides uniform readability and philosophy—cover to cover Lumbar approaches include microdiscectomy, laminectomy, transforaminal interbody fusions, and the transpoas approach Cervical procedures encompass posterior foraminotomy, laminectomy, and anterior discectomy Superb illustrations, high-fidelity anatomical animations based on computer modeling, and procedural

videos enhance understanding of minimally invasive spine principles This unique, single-author Primer is a must-have resource for early-career spine surgeons who wish to learn minimally invasive principles, as well as veteran surgeons who have a desire to incorporate minimally invasive spine surgery into clinical practice.

"Plastic Surgery Review meets the need for a high-yield, compact review book for the plastic surgery in-service, written board, and maintenance of certification examinations. Its 50 chapters are organized into four sections tested by the plastic surgery in-service examination: comprehensive plastic surgery craniomaxillofacial surgery breast and cosmetic surgery hand and lower extremity An outline format with bullet points, tables, figures, mnemonics, and references facilitates review and memorization. Invited expert reviewers ensure the material is accurate and up-to-date"--Provided by publisher.

Unique resource from internationally renowned experts details the key role of sagittal spine balance Through evolution, human verticality became associated with a wide range of normal pelvic shapes and associated pelvic incidence angles (PIs). While all types of sagittal alignment generally provide adequate support to young adults, age, stress, and related degeneration can progressively lead to sagittal imbalance and contribute to various spinal pathologies. Sagittal

Balance of the Spine by Pierre Roussouly, João Luiz Pinheiro-Franco, Hubert Labelle, Martin Gehrchen, and a cadre of esteemed international contributors focuses on the importance of sagittal alignment and spino-pelvic shape identification in clinical practice. Offering the most comprehensive text on sagittal balance to date, this state-of-the-art, richly illustrated book fills a void in the literature, offering clinical pearls throughout seven sections and 24 chapters. Key Highlights The biomechanics of sagittal balance including spine modeling, primary parameters, spinal curves segmentation, and lumbar lordosis classification The role of sagittal balance in low back pain and degeneration, with discussion of spinal orientation and the contact forces theory, spinal degeneration associated with spinopelvic morphotypes, and compensatory mechanisms Comprehensive analysis of the relationship between sagittal imbalance and isthmic lysis spondylolisthesis, degenerative spondylolisthesis, Scheuermann's kyphosis, adolescent idiopathic scoliosis, and adult scoliosis Posterior and anterior treatment approaches – from spinal fixation and spinal fusion – to spinal osteotomy techniques and management of surgical failure This text is essential reading for every neurosurgical and orthopaedic resident, as well as veteran surgeons who evaluate and treat patients with spine conditions. Clinicians will learn why incorporating sagittal balance evaluations into

spinal exams is integral to devising more effective treatment strategies and achieving improved outcomes.

Quintessential Atlas of Anatomy expands on widely acclaimed prior editions! Atlas of Anatomy, Latin Nomenclature, Fourth Edition builds on its longstanding reputation of being the highest-quality anatomy atlas published to date using Latin nomenclature. With more than 2,000 exquisitely detailed illustrations, including over 120 new to this edition, the Atlas helps students and seasoned clinicians master the details of human anatomy. Key Features: NEW! Expanded Radiology sections include over 40 new radiographs, CTs, and MRIs NEW! A more dissectional approach to the head and neck region places neck anatomy before that of the head – the way most students dissect NEW! Additional images and tables detail the challenging anatomy of the peritoneal cavity, inguinal region, and infratemporal and pterygopalatine fossae NEW! Almost 30 new clinical boxes focus on function, pathology, diagnostic techniques, anatomic variation, and more NEW! More comprehensive coverage clarifies the complexities of the ANS, including revised wiring schematics Also included in this new edition: Muscle Fact spreads provide origin, insertion, innervation, and action An innovative, user-friendly format: every topic covered in two side-by-side pages Online images with "labels-on

and labels-off" capability are ideal for review and self-testing What users say about the Atlas of Anatomy: "I can't say enough how much I like the organization of this text. I think Thieme has 'hit the nail on the head' with structuring everything by region (Lower Limb) and sub-region (Ankle & Foot). It's very easy to find what you're looking for..." "The figures in the Atlas of Anatomy are exemplary and surpass other competing texts. The images are clear, precise, and aesthetically colored. The unique views presented in this work are also very helpful for studying a three-dimensional subject such as human anatomy."

The Business of Dermatology

Practical Digital Mammography

Clinical Protocols

Fundamentals of Neurology

Hand Surgery

Cutting-edge neck dissection resource provides expert guidance on its use in a wide spectrum of head and neck pathologies
Dissection of critical structures of the neck is integral to head and neck surgery, for both benign and malignant neck masses and diagnoses of the head, skull base, and cervicothoracic junction. Neck Dissection by Brendan Stack and Mauricio Moreno is a comprehensive treatise on state-of-the-art neck dissection. With contributions from an impressive cadre of international leaders in

head and neck surgery, this in-depth, yet concise evidence-based guide covers fundamental and advanced principles of cervical lymphadenopathy surgery. The book begins with preoperative evaluation of cervical lymphadenopathy candidates, history of procedures, international nodal level classifications, and surgical neck anatomy. Subsequent chapters address the subtleties between different dissection modalities including radical, modified radical, selective, supraomohyoid, and salvage, as well as insights on complications and rehabilitation. Current imaging methods are discussed in context with anatomical structures and malignancies, including cross-sectional, ultrasound, and integrated FDG-PET/CT. Pathology and adjuvant therapies for malignant diseases of the neck are also discussed. Key Features The latest advances in immunology and cell signaling of neck metastatic disease, related to cervical lymph node and extracapsular spread Anatomic and pathophysiologic nuances encountered in the treatment of squamous cell carcinoma, melanoma, salivary gland malignancies, and thyroid carcinomas Special topics such as prophylactic neck dissection, robotics, intraoperative nerve monitoring, adjuvant

therapy for neck nodal disease, and histopathologic neck dissection evaluation Over 200 radiographs and illustrations, as well as online supplementary video material enhance understanding of impacted anatomy and procedures All clinicians involved in the interdisciplinary diagnosis and treatment of head and neck pathologies will benefit from this outstanding operative guide.