

Principles And Practice Of Vitreoretinal Surgery

This two-volume set is a complete guide to the diagnosis and management of ophthalmic diseases and disorders. Volume One begins with an overview of basic sciences, ocular pathology, and clinical examination. The remainder of this volume and Volume Two discuss numerous diseases that may occur in different parts of the eye. The second edition has been fully revised and features many new topics including innovative techniques in cataract surgery, imaging modalities, pharmacotherapy, new surgical procedures, and much more. This comprehensive text is highly illustrated with nearly 1900 clinical photographs, radiological images, diagrams, tables and boxes. Key points

Two-volume guide to diagnosis and management of ophthalmic disorders and diseases Fully revised, second edition with many new topics Highly illustrated with nearly 1900 photographs, diagrams and tables Previous edition (Vol 1 9780721672113 and Vol 2 9780721672120) published in 1980

The value of this book lies in the quality and expertise of the text chapters contributed by multiple international experts across the globe. Clearly written by the contributors providing a global perspective about the subject. Attempts to update the state-of-the-art vitreoretinal surgery in a lucid, authoritative and well-illustrated manner. Detailed reference lists following each chapter provide extensive background support for the text. Outstanding illustrations combined with excellent schematic drawings, beautiful clinical photographs, fluorescein angiograms, and OCT images. Illustrations.

Comprehensive guide to latest techniques in vitreoretinal surgery.

Includes complete section on paediatric retinal surgery.

The text provides basic and comprehensive coverage of all aspects of surgery for the vitreous and the retina. The key to this volume is that it is technique based, thus giving the surgeon clear instructions on how to perform vitreoretinal surgery. Not only is this book authoritative, it is practical. Each chapter is fully illustrated with the steps performed in the actual surgical operation.

Two Volume Set

Principles and Practice of Ophthalmology E-Book

Retinal Detachment

Principles and Practice

Cutting-edge Vitreoretinal Surgery

Keeping up to date with advances in comprehensive ophthalmology and in the ophthalmic sub-specialties is extremely difficult because of the accelerating rapidity with which new information and technology become available and the diminishing time and opportunity for practitioners and trainees to read and learn. The first edition of Albert and Jakobiec 's Principles and Practice (1994) was conceived with the idea of utilizing an electronic, updated version in which the chapters were revised by the chapter authors on an annual or semi-annual basis, but the technology was not sufficiently advanced to achieve this goal. Subsequent editions (2000 and 2008) were organized by Saunders and the last published by Elsevier (of which Springer has obtained the complete rights to move forward with the 4th edition, see attachment). The third edition sold 1950 copies since 2009-2012 plus 21 copies of the ebook were sold in that time.

From 2012-2015, 422 copies were sold. The monthly online usage numbers up through 2016 were approximately 3300 views (includes chapter views and downloads). All of these numbers came courtesy of Dr. Albert, via his former Elsevier editor, Russell Gabbedy and Dr. Albert's royalty statements. For more than two decades, this text has provided its readers with authoritative and comprehensive coverage of all facets of ophthalmology, written and edited by a group of authors who represented a "Who's Who" in ophthalmology. By using Springer's Meteor platform, with its ability to allow authors and editors access to updating their chapters online annually/semi-annually, and with the recruitment of select chapter authors, this work's usefulness as the standard text in ophthalmology will be maintained and expanded upon by Springer.

Back Cover Copy Draft text: The 4th edition of this comprehensive and authoritative text is written by hundreds of the most distinguished authorities from around the world and edited by three leaders in the field, providing today's best answers to every question that arises in one's ophthalmology practice. Richly illustrated with thousands of high quality, full color, clinically-relevant images, Albert and Jakobiec's Principles and Practice of Ophthalmology, 4th Edition covers every scientific and clinical principle in ophthalmology, ensuring that the reader will always be able to find the guidance needed to diagnose and manage patients' ocular problems and meet today's standards of care. Written for practicing ophthalmologists and trainees, this book delivers in-depth guidance on new diagnostic approaches, operative techniques, and treatment options, as well as coherent explanations of every new scientific concept and its clinical importance. The 4th edition will prove to be the source every practicing clinician needs to efficiently and confidently overcome any clinical challenge they may face. Updates include new chapters on anterior and posterior segment diseases, as well as chapters more focused on treatment, plus thousands of new, high-quality, color images and illustrations, updated references, and information on the most cutting-edge technology used by clinicians in their practices today. Additionally, readers will enjoy the same, user-friendly, full-color design they remember from the previous edition, complete with many at-a-glance summary tables, algorithms, boxes, and diagrams that allow the reader to locate the assistance needed more rapidly than ever. "I am familiar with the book and well recognized authors and Editors. The book in its current form is encyclopedic. Could be more focused on treatment. Long duration between 3rd and the 4th edition necessitates almost complete rework. The proposal hits on the key aspects for a successful textbook. The unique advantages are its name recognition (20 yrs of legacy) and established track record. Would support the proposal." Dr. Arun Singh, Cleveland Clinic, Department of Ophthalmology (Springer's EiO series editor and regular Springer volume editor): - I shared these comments with the VE's and they have acknowledged that all chapters will be re-worked in one way or another (from basic, updated references to complete re-writes of chapters and updated, clinically relevant, full-color photos). "...This has always been a very authoritative and prestigious text with encyclopedic knowledge from prestigious authors and contributors. It has served, in the past, as a standard approach for all residents in training, as well as comprehensive ophthalmologists and people in allied fields. Formerly, optometrists did not purchase books, but they do now. My Retinal Atlas is a good example of how they are trying to understand the ophthalmic principles and practices to enhance their profession. One addition to the new version would be imaging...anterior and posterior

segment diseases. This would be essential to allow a broad interest and comprehensive training and learning experience." - Dr. Lawrence Yannuzzi, MD, President The Macula Foundation, Professor of Clinical Ophthalmology, Columbia University (current Springer Volume Editor). - I shared these comments with the VE 's and they agreed to add the anterior and posterior segment diseases (and had been planning on it) Reviews of the last edition: "The reference by which other ophthalmology texts are judged." Archives of Ophthalmology "The current standard in comprehensive ophthalmology textbooks." JAMA "A magnificent encyclopedic work...A ready source of information when getting ready to perform a seldom-done surgical procedure or when stumped with an unusual clinical problem." Survey of Ophthalmology "This is a wonderful set of volumes with top quality in their coverage of current ophthalmology, a valuable addition to the library of all ophthalmologists." Graefe's Archive for Clinical and Experimental Ophthalmology, September 2009 "In 1994, Daniel M. Albert and Frederik A. Jakobiec produced the first edition of this award-winning and esteemed masterwork, which is used by the ophthalmic community worldwide as reference. The third edition... is a 4-volume, 5502-page update of this magnificent encyclopedic work. A highpoint of this new edition is the website access...this is a wonderful set of volumes with top quality in their coverage of current ophthalmology, a valuable addition to the library of all ophthalmologists." - Springer: Graefes Arch Clin Exp Ophthalmol (2009) 247:1437-1438

The long-awaited second edition of an authoritative reference on electrophysiologic vision testing, including detailed information on techniques and problems, basic physiology and anatomy, theoretical concepts, and clinical findings; with extensive new material. This authoritative text is the only comprehensive reference available on electrophysiologic vision testing, offering both practical information on techniques and problems as well as basic physiology and anatomy, theoretical concepts, and clinical correlations. The second edition, of the widely used text, offers extensive new material and updated information: 65 of the 84 chapters are completely new, with the changes reflecting recent advances in the field. The book will continue to be an essential resource for practitioners and scholars from a range of disciplines within vision science. The contributions not only cover new information—important material that is likely to become more important in the next decade—but also offer a long-range perspective on the field and its remarkable development in the last century. After discussing the history and background of clinical electrophysiology, the book introduces the anatomy of the retina and principles of cell biology in the visual pathways at the molecular, physiological, and biochemical levels. It relates these new findings to the techniques and interpretations of clinical tests, including the electro-oculogram (EOG), electroretinogram (ERG), and visual evoked potentials (VEP), which are discussed in detail, as are equipment, data acquisition and analysis, principles and protocols for clinical testing, diseases and dysfunction, and animal testing. Notable additions for this edition include chapters on the origin of electroretinogram waveforms, multifocal techniques, testing in standard laboratory animals, recent advances in analysis of abnormalities in disease, and the applications of these techniques to the study of genetic abnormalities.

A comprehensive guide for the eye specialist, Principles of Ocular Imaging presents essential information on imaging modalities for ophthalmologists, residents, and fellows.

Ophthalmology and imaging are inextricably intertwined, and practicing eye care professionals need a single definitive source on multiple imaging modalities to reference in clinical practice. Together with their contributors, Drs. Gologorsky and Rosen provide concise but thorough information on the technology and clinical application of 22 imaging modalities unique to ophthalmology, with illustrations and photos throughout that demonstrate how to apply each imaging principle in clinical practice. Principles of Ocular Imaging is divided into the following subspecialties for easy reference in busy clinical environments: Oculoplastics: external photography, ptosis visual fields, slit lamp photography, and orbital ultrasonography Cornea and refractive: corneal topography, confocal microscopy, anterior segment optical coherence tomography (AS-OCT), ultrasound biomicroscopy (UBM), biometry for intraocular lens (IOL) calculations Glaucoma: visual fields, optical coherence tomography (OCT) in glaucoma Retina: fundus photography, fluorescein angiography (FA), indocyanine green (ICG) angiography, fundus autofluorescence (FAF), OCT in retina, optical coherence tomography angiography (OCTA), adaptive optics (AO), microperimetry, retinal ultrasonography Neuro-Ophthalmology: electrophysiology of vision and computed tomography (CT) & magnetic resonance imaging (MRI) A practical, illustrative guide to ophthalmic imaging, Principles of Ocular Imaging is an indispensable addition to the practicing ophthalmologist's professional library. Through six outstanding and award-winning editions, Ryan 's Retina has offered unsurpassed coverage of this complex subspecialty—everything from basic science through the latest research, therapeutics, technology, and surgical techniques. The fully revised 7th Edition, edited by Drs. Srinivas R. Sadda, Andrew P. Schachat, Charles P. Wilkinson, David R. Hinton, Peter Wiedemann, K. Bailey Freund, and David Sarraf, continues the tradition of excellence, balancing the latest scientific research and clinical correlations and covering everything you need to know on retinal diagnosis, treatment, development, structure, function, and pathophysiology. More than 300 global contributors share their knowledge and expertise to create the most comprehensive reference available on retina today. Features sweeping content updates, including new insights into the fundamental pathogenic mechanisms of age-related macular degeneration, advances in imaging including OCT angiography and intraoperative OCT, new therapeutics for retinal vascular disease and AMD, novel immune-based therapies for uveitis, and the latest in instrumentation and techniques for vitreo-retinal surgery. Includes five new chapters covering Artificial Intelligence and Advanced Imaging Analysis, Pachychoroid Disease and Its Association with Polypoidal Choroidal Vasculopathy, Retinal Manifestations of Neurodegeneration, Microbiome and Retinal Disease, and OCT-Angiography. Includes more than 50 video clips (35 new to this edition) highlighting the latest surgical techniques, imaging guidance, and coverage of complications of vitreoretinal surgery. New videos cover Scleral Inlay for Recurrent Optic Nerve Pit Masculopathy, Trauma with Contact Lens, Recurrent Retinal Detachment due to PVR, Asteroid Hyalosis, and many more. Contains more than 2,000 high-quality images (700 new to this edition) including anatomical illustrations, clinical and surgical photographs, diagnostic imaging, decision trees, and graphs. Principles and Practice of Ophthalmology: Retina and Vitreous Operative Techniques in Vitreoretinal Surgery E-Book Principles and Practice of Ophthalmology, Clinical Practice: Retina and vitreous

International Journal of the Kuwait University, Health Science Centre
Principles and Practice of Gynecologic Laser Surgery

In 1994, Drs. Albert and Jakobiec set a new standard for reference works on ocular health and disease with PRINCIPLES AND PRACTICE OF OPHTHALMOLOGY. Now a Second Edition of this landmark 6-volume set encompasses all of the very latest ophthalmic knowledge. It also retains the scholarship, encyclopedic coverage, clinical focus, and rich illustrative detail that distinguished the 1st Edition. Presents in depth discussions of virtually all important diseases and clinical approaches in ophthalmology written by hundreds of the most respected specialists in the field Encompasses the most up-to-date fundamental basic science concepts as well as the very newest techniques and treatments Emphasises essential clinical information while also explaining why certain signs and symptoms develop and reviewing the scientific bases of therapy Incorporates discussions of the relationship between ophthalmic diseases and systemic conditions includes over 7540 stunning illustrations - including 3585 colour photographs Offers a new organisation in which information on ocular biology is integrated into appropriate clinical sections New Content - Surgical - Cornea/refractive, Cataract, Retina, Cosmetic lid procedures Lacrial drainage New Content - Medical - Macular disorder, Glaucoma medications, Systemic disorders New Content - Fundamentals - Genetics - expanded, Laser - completely revised section Refraction techniques - expanded

This book casts light on the most recent and significant changes and challenges in Ophthalmology over the last years. It provides essential and relevant new information and improvements on the main areas of Ophthalmology. Current Concepts of Ophthalmology elaborates on recent developments in Refractive and Cataract surgery, Cornea transplants, Neuro-Ophthalmology and many more. Based on increasing professional subject specialisation, this book offers the opportunity to stay up-to-date with areas outside of the own specific sub-specialty. Further, it traces issues and useful information to understand the trends and areas of future interest. Written by renowned experts of the respective fields, readers will discover a concise update on modern ophthalmology.

This book is a comprehensive guide to the diagnosis and management of retinal diseases and disorders. Divided into nine sections, text begins with an introduction to basic sciences and diagnostics. The following sections provide in depth coverage of both medical and surgical treatment of various disorders - retinal degeneration and fundal dystrophies, macular disease and degeneration, retinal vascular disorders, paediatric retinal disease, choroidal and retinal inflammations, trauma, and problems requiring surgical intervention. The final section discusses miscellaneous conditions such as ocular tumours, toxic and photic retinopathies, and phakomatoses. Highly illustrated with clinical photographs, OCT and angiography images, and tables,

the book provides online access to a selection of videos demonstrating surgical procedures covered in the text. Key points Comprehensive guide to diagnosis and management of retinal diseases Covers both medical and surgical treatments Highly illustrated with clinical photographs, OCT and angiography images, and tables Provides online access to videos demonstrating surgical procedures

This resource provides a convenient, single-volume introduction to the surgical techniques that should be part of the armamentarium of all comprehensive ophthalmologists. This book can serve as a "checklist" for residents as they go through their training and it can also be a useful shelf reference for an ophthalmologist who handles a wide variety of surgical cases with a broad-based practice. Chapters written by leading authorities cover indications, details of surgical techniques, recognition and management of complications, and related issues. Discusses packo chop, laser peripheral iridoplasty, the underfiltering bleb, blepharoplasty, strabismus, proliferative diabetic retinopathy, and much more! Greatly updated coverage in areas such as cataract and retina that puts new procedures in context while not overlooking older procedures of value. Extensive new coverage of laser treatment. Outstanding group of section editors.

*Albert and Jakobiec's Principles and Practice of Ophthalmology
Medical Principles and Practice*

Vitreoretinal Surgical Techniques, Second Edition

Vitreo-retinal Surgery

The Principles and Practice of Ophthalmic Medicine and Surgery

Retinal Detachment: Principles and Practice provides a historical review of current information on the diagnosis and treatment of retinal detachment. It is intended as both an introduction for graduate students in ophthalmology and a concise review or reference for practicing ophthalmologists. The volume defines the types of retinal detachments, their classifications and causes, and covers preoperative examination, preoperative management, prophylactic procedures, surgery, complications of surgery, and results of reattachment surgery. It also includes a historical introduction, suggested readings at the end of each chapter, and the classic article 'The Technique of Binocular Indirect Ophthalmoscopy,' by Morten L. Rosenthal.

One of the first applications of lasers was for surgery on the retina of the eye. That, and the evident analogy to the old dreams of powerful heat rays, led many to predict that lasers would quickly be used for all kinds of cutting and welding, including surgical applications. It was soon apparent that laser surgery could be performed in ways that caused little bleeding. Nevertheless, other surgical applications have been slower to arrive. One difficulty has been the enormous range of possibilities provided by the many different kinds of lasers. Infrared, visible, and ultraviolet light beams each interact very differently with human tissues. Light pulses of enormously great peak powers became available from lasers, but their effects differed in surprising ways from those obtained with

continuous beams. That provided both opportunities (i.e., treating or removing a very thin surface layer without affecting the underlying tissue) and problems with undesired side effects. Moreover, techniques were needed to deliver a precisely controlled amount of energy just where it was desired. Lasers also had to be engineered and manufactured with the desired power levels and a high reliability. A revised reference on contemporary ophthalmic surgery covering virtually everything the surgeon needs to know about ophthalmic procedures used in the daily care of patients. It includes full preoperative assessment, patient preparation and postoperative care for each operation described.

Pediatric retinal diseases are not simply retinal diseases that occur in children; rather, they are unique disorders that often are not found in adults. This textbook of the pediatric retina offers in-depth guidance on congenital and acquired diseases of the retina in the pediatric population. It is organized according to disease onset and timing, as well as anatomy. All chapters are written by leading authorities in the field from both the pediatric and the retinal perspective. A multidisciplinary approach to the topic is adopted, and critical information is included on disease classification and diagnosis, pathophysiology, genetics, complications, and prognosis. Pediatric Retina will be a useful source of information for pediatric ophthalmologists, retina specialists, and other eye care providers who care for children.

Vitreoretinal Surgery: Strategies and Tactics

Principles and Practice of Ophthalmic Medicine and Surgery

Vital Dyes in Vitreoretinal Surgery

Vitreoretinal Surgery

Principles and Practice of Pediatric Anesthesia

Master new procedures and improve outcomes with Operative Techniques in Vitreoretinal Surgery. This easy-to-read, "how-to" surgical atlas offers expert, step-by-step guidance on how to successfully perform basic retina and vitreous surgery as well as more involved complex and advanced procedures. Edited by Abdhish R. Bhavsar, MD, this unique resource focuses on the essentials of operative technique, helping both the novice and advanced retina surgeon make the most of the latest, most effective procedures in this fast-moving field. Covers commonly performed and more complex vitreoretinal surgical techniques as well as surgical approaches to specific disorders—all using up-to-date methods and technology. Contains more than 300 high-quality clinical photographs and illustrations with clear explanations. Includes key topics such as scleral buckle surgery, vitrectomy surgery including 27 gauge, managing intraocular tumors, iris and scleral fixation of dislocated intraocular lenses, including the Yamane technique, the latest ROP surgical management, and modern vitreous implant surgical approaches. Discusses the latest techniques for repairing very large or failed macular holes, robotic retina and vitreous surgery, artificial retinal prosthesis surgery, and delivery of

subretinal gene therapy. Highlights clinical pearls, pitfalls, and potential complications throughout. Concise, authoritative, and easy to navigate, The Duke Manual of Vitreoretinal Surgery offers a step-by-step, highly illustrated approach to the most commonly performed vitreoretinal operating room procedures. Ideal for vitreoretinal surgeons, ophthalmology residents, retina fellows, and OR nurses and scrub techs, it contains practical guidance from the highly esteemed vitreoretinal surgery fellowship program at Duke University making it an unparalleled "how-to" manual for the wide variety of cases and operative scenarios you may encounter. Inside the 3rd edition of this esteemed masterwork, hundreds of the most distinguished authorities from around the world provide today's best answers to every question that arises in your practice. They deliver in-depth guidance on new diagnostic approaches, operative technique, and treatment option, as well as cogent explanations of every new scientific concept and its clinical importance. With its new streamlined, more user-friendly, full-color format - as well as access to the complete contents online - this 3rd edition makes reference much faster, easier, and more versatile. More than ever, it's the source you need to efficiently and confidently overcome any clinical challenge you may face. Comprehensive, authoritative, and richly illustrated coverage of every scientific and clinical principle in ophthalmology ensures that you will always be able to find the guidance you need to diagnose and manage your patients' ocular problems and meet today's standards of care. Updates include completely new sections on "Refractive Surgery" and "Ethics and Professionalism"... an updated and expanded "Geneitcs" section... an updated "Retina" section featuring OCT imaging and new drug therapies for macular degeneration... and many other important new developments that affect your patient care. A streamlined format (now four volumes instead of six) and a new, more user-friendly full-color design - with many at-a-glance summary tables, algorithms, boxes, diagrams, and thousands of phenomenal color illustrations - allows you to locate the assistance you need more rapidly than ever. Access to the complete contents of the four-volume set online - with rapid search capabilities and downloadable illustrations - enables you to quickly and powerfully reference the material from any computer. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the

right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should access to the web site be discontinued.

Chromovitrectomy is a novel approach to visualize the vitreous or retinal surface during vitreoretinal surgery. In recent years, the widely used indocyanine green (ICG) has made the surgical maneuver of inner limiting membrane peeling tremendously safer and efficient. Also, numerous dyes have been applied in experimental settings with promising or devastating results. This volume highlights the major clinical and experimental results of currently used novel vital dyes. The first chapters describe the transparent structure of the vitreous body and summarize historical considerations to visualize its structure by optical coherence tomography, dye injections or autologous cells during surgery and for diagnostic purposes. The following contributions describe the advantages and disadvantages of ICG during vitreoretinal surgery and experimental applications. Alternative approaches by recently approved vital dyes such as trypan blue, patent blue and brilliant blue are evaluated in the subsequent chapters. Finally the last few chapters give an outlook on novel vital dyes, which are currently under evaluation, as well as alternative enzymatic approaches to remove the vitreous from the retinal surface. Being a timely update this publication will be indispensable reading for vitreoretinal surgeons and ophthalmic researchers.

Albert & Jakobiec's Principles and Practice of Ophthalmology
Peyman's Principles & Practice of Ophthalmology
Principles and Practice of Ophthalmology
Management of Complicated Vitreoretinal Diseases
Principles and Practice of Clinical Electrophysiology of Vision, second edition

This book is exceptional in explaining not only when and how but also why vitrectomy is performed - an additional focus that will help trainee surgeons to develop their own critical thinking. Uniquely, the book's first part describes "the life of the vitreoretinal surgeon" to help residents decide whether the field is indeed suitable for them, and if yes, how they can chart their own course in the absence of a formal fellowship program. The second and third parts discuss the fundamentals in VR surgery, such as the general philosophy underlying vitrectomy, equipment, examination, timing, anesthesia, the surgeon's posture, and the organization of the operating room. The final two parts are dedicated to surgical strategy and tissue tactics, reviewing the principles of surgical maneuvers and the practical sides of diagnosis-specific issues. An appendix is also included, which offers additional guideposts for the aspiring trainee surgeon, including a description of how an ideal mentor should act in surgery. The book is written in an easy-to-follow format with bullet points and text boxes, and has well over 250 color images and line drawings as well as over 60 tables. This book covers the entire range of vitreoretinal surgeries. The first section covers essential information about the anatomy and the appropriate diagnostic techniques which helps in preoperative evaluation. The second section is on surgical instrumentation, and

includes adjuncts used in VR surgery. Advanced instrumentation such as 3D visualization system, endoscopic vitrectomy and robotic surgeries are well described in the chapters. The later sections deal with the surgical technique for different disease entities. Management of posterior segment complication of anterior segment surgeries such as cataract and keratoprosthesis are reviewed in detail. A section on gene therapy has been incorporated. This book will help the reader to gather a detailed round-up of basics of and advances made in the field of vitreoretinal surgery. It is supplemented with videos. This book is meant for practicing retinal surgeons, those in training as well as students with interest in vitreoretinal surgery.

Ocular Trauma: Principles and Practice is the first comprehensive clinical reference on ocular injuries in more than a decade. Each chapter gives you detailed instructions on evaluation, treatment, and management, including what to do, how to do it, and why to do it. You'll also learn techniques for developing individualized treatment strategies for hard-to-identify injuries. The book begins with general terminology and classification of ocular trauma, and goes on to cover such topics as: the new role of endoscopy; eye restoration with complete iris loss; anterior chamber disorders; rehabilitation advances; medicolegal issues regarding the ophthalmologist as an expert witness; and much more! Insightful chapters written by patients offer their perspectives on the physical injuries and emotional trauma they have experienced. This reader-friendly book is a valuable addition to the professional library of every ophthalmologist, retina specialist, resident, and emergency room physician who deals with trauma patients. No other resource gives you such an abundance of information on assessment, emergency intervention, management, and rehabilitation. Make sure you have the best, state-of-the-art information as you treat patients who have suffered an ocular injury. Key features of OCULAR TRAUMA: A systemic approach to eye management on a tissue by tissue basis, instead of the traditional anterior/posterior approach Practical, easy-to-use format, featuring more than 350 illustrations (156 in full color), pearls, pitfalls, bullets, and special considerations-ideal for daily practice An international panel of expert authors offering up-to-date global perspectives on management of ocular trauma Draws on the largest epidemiologic and clinical data collection available, The United States Eye Injury Registry Offers an important discussion of medicolegal issues facing ophthalmologists called as expert witnesses Provides a comprehensive list of common abbreviations and frequently used terms And more!

Since the introduction of vitrectomy in the 1970s, vitreoretinal surgery has rapidly developed. Initially, new instrumentations were created to facilitate intraocular maneuvers and to treat almost all the vitreoretinal pathologies. High speed vitrectome probs, forceps, scissors, endolaser probes, and new light sources (xenon/photon light) permit us to perform safer surgeries. However, in the last few years the approach to vitreoretinal surgery has changed with the introduction of small gauge instruments and sutureless surgery. At present there is still confusion among vitreoretinal surgeons about the use of 25-, 23- or 20-gauge sutureless systems. Leading surgeons in the field were recruited to offer their insights into the sutureless techniques they perform. Topics dealt with in the book include: - fluidics and technical characteristics of 23- and 25-gauge systems, - basic vitrectomy techniques of 23- and 25-gauge systems, - sclerotomy characteristics of the sutureless approach, - advantages and disadvantages of the sutureless technique, - vitreoretinal pathologies treated with 23- and 25-gauge systems, - complications of the sutureless technique, - current clinical data.

Principles & Practice

Principles of Ocular Imaging

Current Concepts in Ophthalmology

Progress III

Principles and Practice of Ophthalmic Anaesthesia

This book provides the vitreoretinal surgeon with advice and guidance on how to treat and manage the unpredictable complexities and potential intra- and postoperative complications that are encountered during the course of vitreoretinal surgery. Internationally renowned surgeons share their extensive surgical experience in a clearly written and well-illustrated format, delivering helpful practical answers to the important problems frequently confronted in this ever-challenging area of ophthalmic surgery. Management of Complicated Vitreoretinal Diseases will appeal to surgeons young and old, and will find its home not only in the library but also in the office and the operating room itself. The open and positive way in which the many scenarios and difficulties encountered in surgery are confronted will improve the expertise of the surgeon and, most importantly, the outcomes for patients.

This book is a comprehensive guide to ophthalmic anaesthesia detailing different types of anaesthesia, techniques, subsequent effects and possible complications. Divided into six sections the book begins with basic clinical knowledge including anatomy and physiology and the effects of ocular medications. The following sections examine the techniques and uses of regional anaesthesia, concluding with a chapter on emergencies in ocular surgery. The second half of the book covers general anaesthesia covering the physiological and pharmacological effects on the eye, and its use for numerous subspecialty surgical procedures including for examination and diagnosis, for paediatric surgeries, vitreoretinal surgery, glaucoma, emergency eye surgery and more. The final section is dedicated to the causes and management of chronic ophthalmic pain. Each chapter features an abstract and ' nuggets of wisdom ' providing useful points on the topic. Nearly 200 clinical images and tables enhance learning. Key Points Comprehensive guide to ophthalmic anaesthesia covering types, techniques, effects and complications Discusses both regional and general anaesthesia for numerous ocular surgeries Includes chapters on emergencies in ocular surgical procedures Each chapter includes an abstract and ' nuggets of wisdom '

This book provides a detailed overview of techniques in paediatric anaesthesia. Beginning with the basic principles of child anatomy, growth and development, the following section explains general principles of anaesthetising a child, from preoperative evaluation and induction, to monitoring, pain assessment, ventilation strategies, and transfusion therapy. The book covers anaesthesia for numerous sub-specialties including neonatal surgery, ENT procedures, dentistry, liver disease, thoracic surgery, ophthalmic procedures, and much more. The final sections describe special circumstances and complications, and associated topics such as safety and quality, and ethical issues. Comprehensive appendices provide an index of syndromes and anaesthetic implications, a paediatric drug index, quick reference tables and formulae, and a photo gallery. Key points Presents overview of techniques in paediatric anaesthesia Covers numerous sub-specialties, special circumstances and complications Discusses associated topics including safety and quality, and ethical issues Comprehensive appendices provide indexes of syndromes, anaesthetic implications and drug dosages, as well as quick reference tables and a photo gallery

Ophthalmic Surgery, edited by Drs. George Spaeth, Helen Danesh-Meyer, Ivan Goldberg, and Anselm Kampik, provides the detailed, full-color, step-by-step guidance you need to master essential ophthalmic surgery procedures. The international team of expert editors and contributors present coverage of the latest surgical developments and video demonstrations of key techniques across subspecialties, including cataract, cornea, refractive, glaucoma,

oculoplastic, extra-ocular muscle, vitreoretinal, and ocular tumor procedures. What ' s more, the fully searchable text, procedural videos, and a downloadable image gallery are all online at www.expertconsult.com, making this multimedia resource the key to performing confidently in the operating room. Refer to the most important steps in each procedure quickly and easily with an appendix of step-by-step hand notes. Perform a wide variety of procedures with confidence using the focused coverage that pinpoints essential information and avoids extraneous details. Get comprehensive coverage across key subspecialties—oculoplastic, strabismus, cornea, refractive, cataract, glaucoma, ocular tumors, and vitreoretinal—and master the basics for every common procedure. Access the fully searchable contents online at www.expertconsult.com, along with procedural videos and a downloadable image gallery. Apply the latest advances in laser surgery that have become standard practice with the new section on refractive surgery. Master key techniques thanks to more than four hours of narrated online videos that demonstrate procedures across eight subspecialties. Gain a more nuanced visual understanding through a new full-color art program with over 800 illustrations, updated and revised drawings, color images, and step-by-step illustrated procedures. Tap into the expertise of leading authorities in the field with a brand new editorial team from North America, Europe, and Australasia, as well as international contributors who provide global perspectives across all subspecialties in ophthalmic surgery.

Ocular Trauma

Principles and Practice

Ophthalmic Surgery

Ryan's Retina E-Book

Principles and Practice of Vitreoretinal Surgery

Inside the 3rd edition of this esteemed masterwork, hundreds of the most distinguished authorities from around the world provide today's best answers to every question that arises in your practice. They deliver in-depth guidance on new diagnostic approaches, operative technique, and treatment option, as well as cogent explanations of every new scientific concept and its clinical importance. With its new streamlined, more user-friendly, full-color format, this 3rd edition makes reference much faster, easier, and more versatile. More than ever, it's the source you need to efficiently and confidently overcome any clinical challenge you may face. Comprehensive, authoritative, and richly illustrated coverage of every scientific and clinical principle in ophthalmology ensures that you will always be able to find the guidance you need to diagnose and manage your patients' ocular problems and meet today's standards of care. Updates include completely new sections on "Refractive Surgery" and "Ethics and Professionalism"... an updated and expanded "Geneitcs" section... an updated "Retina" section featuring OCT imaging and new drug therapies for macular degeneration... and many other important new developments that affect your patient care. A streamlined format and a new, more user-friendly full-color design - with many at-a-glance summary tables, algorithms, boxes, diagrams, and thousands of phenomenal color illustrations - allows you to locate the assistance you need more rapidly than ever.

Vitreoretinal Surgical Techniques, Second Edition provides basic and comprehensive coverage of all aspects of surgery for the vitreous and retina. It provides an array of techniques useful not only to ophthalmologist in training but also to the practicing vitreoretinal specialist. This superb and invaluable text is both authoritative and practical as experienced practitioners explain their surgical approach in step-by-step illustrations of operative techniques. This new edition, contains 87 chapters with almost 900 illustrations, most of which are in color. Vitreoretinal

Surgical Techniques, Second Edition will be essential for vitreoretinal specialists, comprehensive ophthalmologists, residents, and fellows, as well as in training programs and libraries.

2013 BMA Medical Book Awards Highly Commended in Surgical Specialties! Unequaled in scope, depth, and clinical precision, Retina, 5th Edition keeps you at the forefront of today's new technologies, surgical approaches, and diagnostic and therapeutic options for retinal diseases and disorders. Comprehensively updated to reflect everything you need to know regarding retinal diagnosis, treatment, development, structure, function, and pathophysiology, this monumental ophthalmology reference work equips you with expert answers to virtually any question you may face in practice. The chapters demonstrate clarity, authority, and breadth which together with superb illustrations and videos result in an outstanding book. Reviewed by: B.R.Masters, Independent Scholar on behalf of Graefe's Archive for Clinical and Experimental Ophthalmology journal, Jan 2014 Benefit from the extensive knowledge and experience of esteemed editor Dr. Stephen Ryan, five expert co-editors, and a truly global perspective from 358 other world authorities across Europe, Asia, Australasia the Americas. Examine and evaluate the newest diagnostic technologies and approaches that are changing the management of retinal disease, including future technologies which will soon become the standard. Put the very latest scientific and genetic discoveries, diagnostic imaging methods, drug therapies, treatment recommendations, and surgical techniques to work in your practice. Make the best use of new technologies with expanded and updated coverage of optical coherence tomography (OCT), fundus imaging, and autofluorescence imaging. Apply the latest knowledge on anti-VEGF therapy for age related macular degeneration, diabetic retinopathy and vein disease. Learn about artificial vision, drug delivery to the posterior segment, advances in macular surgery, vitrectomy, and complex retinal detachment, with updates on tumors, retinal genetics, cell biology, important basic science topics, and much more. Get the most out of new pharmacologic approaches in the management of age-related macular degeneration and diabetic retinopathy. In your practice, diagnostic evaluations, and now even treatments, will be influenced by recent scientific discoveries such as in the areas of nanotechnology, neuro protection, stem cells and gene therapy, among other scientific contributions. View videos of surgical procedures and access the complete contents of Retina, 5th Edition online at www.expertconsult.com, fully searchable, with regular updates and a downloadable image gallery.

Ophthalmic Surgery, edited by Drs. George Spaeth, Helen Danesh-Meyer, Ivan Goldberg, and Anselm Kampik, provides the detailed, full-color, step-by-step guidance you need to master essential ophthalmic surgery procedures. The international team of expert editors and contributors present coverage of the latest surgical developments and video demonstrations of key techniques across subspecialties, including cataract, cornea, refractive, glaucoma, oculoplastic, extra-ocular muscle, vitreoretinal, and ocular tumor procedures. What's more, the fully searchable text, procedural videos, and a downloadable image gallery are all online at www.expertconsult.com, making this multimedia resource the key to performing confidently in the operating room. Refer to the most important steps in each procedure quickly and easily with an appendix of step-by-step hand notes. Perform a wide variety of procedures with confidence using the focused coverage that pinpoints essential information and avoids extraneous details. Get comprehensive coverage across key subspecialties-oculoplastic, strabismus, cornea, refractive, cataract, glaucoma, ocular tumors, and vitreoretinal-and master the basics for every common procedure. Access the fully searchable contents online at www.expertconsult.com,

along with procedural videos and a downloadable image gallery. Apply the latest advances in laser surgery that have become standard practice with the new section on refractive surgery. Master key techniques thanks to more than four hours of narrated online videos that demonstrate procedures across eight subspecialties. Gain a more nuanced visual understanding through a new full-color art program with over 800 illustrations, updated and revised drawings, color images, and step-by-step illustrated procedures. Tap into the expertise of leading authorities in the field with a brand new editorial team from North America, Europe, and Australasia, as well as international contributors who provide global perspectives across all subspecialties in ophthalmic surgery. The multimedia step-by-step training guide for ophthalmic surgery with over 800 full color images and 4 hours of narrated procedural videos.

Vitreoretinal Surgical Techniques

Medical & Surgical Management

Chromovitrectomy

The Duke Manual of Vitreoretinal Surgery

A Manual of the Principles and Practice of Ophthalmic Medicine and Surgery