Basic Sciences In Ophthalmology 1st Edition

A sound knowledge of basic sciences is vital for any doctor with an interest in ophthalmology, and is a significant part of all postgraduate examinations in the subject. Featuring 640 multiple choice questions, this is a comprehensive revision guide for candidates taking the basic sciences component of the FRCOphth and ICO examinations. It is highly recommended for ophthalmologists of all grades, ranging from juniors completing ICO basic sciences and FRCOphth examinations to seniors wishing to refresh their knowledge and revalidate. This book is divided into relevant chapters with topics that follow logically, offering a thorough approach to revision and exam practice. Each chapter includes questions in both the FRCOphth (SBA) and ICO (true or false) formats. Detailed, referenced answers are provided to aid comprehension, with difficulty levels allocated for each question to gauge personal progress.

Basic Sciences in OphthalmologyPhysics and ChemistrySpringer

This book is a complete guide to paediatric neurology for clinicians. Beginning with an overview of potential pitfalls in neurological examination of children, the following chapters discuss the diagnosis and management of numerous neurological disorders that may be encountered in daily paediatric practice. Topics covered include cerebral palsy, Guillan-Barré Syndrome, febrile seizures, muscle disorders, cerebral edema, epilepsy, neurogenic bladder dysfunction and much more. Each section is presented with an emphasis on the importance of accurate clinical examination, and covers all the latest developments and management strategies. The comprehensive text is highly illustrated with clinical images and diagrams to enhance learning. Key Points Comprehensive guide to paediatric neurology Covers diagnosis and management of numerous disorders with emphasis on importance of accurate clinical examination Includes discussion on potential pitfalls in neurological examination of children Highly illustrated with clinical photographs and diagrams

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This book is a comprehensive guide to the imaging techniques that have revolutionized the diagnosis and management of uveitis during the past decade, including optical coherence tomography (OCT), enhanced depth imaging, fundus autofluorescence, and wide-field angiography. In addition, the current role of the traditional (invasive) gold standard techniques, fluorescein angiography and indocyanine green angiography, is described. Among the newer imaging modalities, detailed attention is paid to the various OCT technologies such as spectral domain OCT, enhanced-depth imaging OCT, and enface swept-source OCT. Further individual chapters focus on imaging using adaptive optics, multiview OCT, and OCT angiography. Uveitis can affect virtually any structure in the eye, and imaging of these structures is critical in the diagnosis, prognosis, and management of the disease. Increasing use and better understanding of the different modalities described in this book are sure to improve our knowledge of disease mechanisms and likely outcomes.

As the first comprehensive reference for the eye, its support structures, diseases, and treatments, Encyclopedia of the Eye is an important resource for all visual scientists, ophthalmologists, and optometrists, as well as researchers in immunology, infectious disease, cell biology, neurobiology and related disciplines. This four-volume reference is unique in its coverage of information on all tissues important for vision, including the retina, cornea and lens. It also covers the physiological and pathophysiologic processes that affect all eye tissues. This Encyclopedia is invaluable for graduate students and postdoctoral fellows who are seeking an introduction to an area of eye research. Each chapter explains the basic concepts and provides references to relevant chapters within the Encyclopedia and more detailed articles across the wider research literature. The Encyclopedia is also particularly useful for visual scientists and practitioners who are researching a new area, seeking deeper understanding of important research articles in fields adjacent to their own, or reviewing a grant outside their immediate area of expertise. Written by experts at a level that permits students to grasp key elements of a specific subject Provides an entryway into the major features of current eye research No other source puts this much information, so well-indexed and with so many helpful full color figures and graphics, in the hands of the ophthalmic scientist

Designed for people taking the diploma leading to membership of the Royal Colleges of Physicians of the UK, this second edition features multiple-choice questions on general medicine and paediatrics to assist candidates' revision for the papers available in the two subjects from October 1993.

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.

This book is a comprehensive guide for all tissue bank operators to screen, procure and process amniotic membrane for clinical application.The amnion comes close to being the ideal biological membrane or dressing — readily available, inexpensive to procure and process. Its basic science is discussed in detail — anatomy, biological and biomechanical

properties.It can be procured from the placenta in normal vaginal deliveries and from Caesarean Sections. Processing is by freeze-drying or by air-drying process with sterilisation using gamma irradiation.The product has low antigenicity, has anti-microbial properties with ability to enhance epithelisation with marked relief of pain. It is useful as a dressing for wounds — flap wounds, burn wounds, injury wounds, diabetic ulcers, leprous ulcers and post-surgery wounds and post-radiation wounds. It is also used as a biological scaffold for cells in tissue engineering. Its ophthalmic applications include treatment of corneal ulcers and conjunctival tumours. Oral uses include gingiva depigmentation and periodontal regeneration.

The goal of this comprehensive text is to enable ophthalmologists and rheumatologists to differentiate scleral disorders and implement timely treatment plans based on current best practice and available evidence. Extensive updates to text reflect the advances that have occurred in investigation and treatment of scleral disease since the 2nd edition was written between 1998 and 2003. Numerous new and replacement images of the highest quality, particularly (in chapter 5) of Anterior Segment OCT which is being adapted to investigate scleral disease with stunning results. 1000+ new references to relevant key review and research papers.

Basic Sciences in Ophthalmology aims to link clinical ophthalmology directly to its basic science roots. This first volume describes the physics and chemistry required for a sound understanding of modern ophthalmology. The book opens with an extensive discussion of the interaction of light with matter and the way in which light is used in ophthalmic examinations and treatments. After describing traditional methods of imaging, particular emphasis is placed on modern instrumentation such as OCT. The interaction between light and tissues in different types of laser treatment is also addressed. The chemistry section focuses on compounds particularly relevant to the eye, such as oxygen and water. The origin and consequences of oxidative stress are reviewed, and the physical behavior of chemical compounds in the eye is explained. Understanding is facilitated through the use of many examples taken from the field of ophthalmology. The text is complemented by about 450 figures.

The updated Second Edition of this atlas is the definitive pictorial guide to differential diagnosis and treatment of virtually every presenting condition seen in ophthalmologic practice. Specialists from the prestigious Wills Eye Hospital share their expertise in diagnosing and treating congenital and acquired disorders affecting the internal and external structures of the eye. The superb collection of 1,422 illustrations--1,217 in full color--includes sonograms, radiographs, clinical photographs, photomicrographs, and anatomic drawings. This edition features more information on stem cell and genetic research, more radiographic images and explanations of those findings, and descriptions of current methods of laser surgery. A CD-ROM based on this atlas is also available. See Media listing (Montzka) for details. The atlas and CD-ROM can be purchased together as a money-saving package. A Brandon-Hill recommended title.

Based on feedback, the authors have streamlined their bestselling reference to zero in on just the clinical answers ophthalmologists need in day-to-day practice. This new edition presents unparalleled guidance on nearly every ophthalmic condition and procedure.

Over 300 kinds of assistance are listed with authorizing statutes and data, such as nature of program activity, eligibility, and use restrictions. Entries are arranged under various administrative units of HEW. List of regional offices. Subject index.

During the past several decades, a significant international research effort has been directed towards understanding the composition and regulation of the preocular tear film. This effort has been motivated by the recognition that the tear film plays a critical role in maintaining corneal and conjunctival integrity, protecting against microbial challenge and preserving visual acuity. In addition, research has been stimulated by the knowledge that alteration or deficiency of the tear film, which occurs in numerous individuals throughout the world, may lead to desiccation of the ocular surface, ulceration and perforation of the cornea, an increased incidence of infectious disease, and potentionally pronounced visual disability and blindness.

The book provides high yield information in basic ophthalmology including anatomy, physiology, pathology, pharmacology, microbiology, and embryology that are required for preparation of ophthalmology exams. The book focusses on all parts of the eye, with special focus on basic science including appropriate amount of information on clinical science for students and trainees. It is written in a lucid manner with textual notes and illustrations for quick learning and better understanding. Each section contains high yield information in separate points, with commonly asked information in “Eye Yield Note” boxes. It also includes estimated study time for each section to better plan the study. It also includes a pre-exam night study section at the end of the book that provides the information to be reviewed just before the exam. The book will be very helpful in passing almost all basic ophthalmology exams in a relatively short study time, by skipping the “filling” text available in most of the textbooks. It will be an excellent read for post graduate students looking for concise revision material. It will be relevant for medical students, ophthalmology residents, and medical doctors applying for ophthalmology residency and also for FRCS Part 1 exam.

The softcover edition of this comprehensive, superbly illustrated textbook contains key updates to the text and references, reflecting the main developments in science and in practice since first publication. It is aimed squarely at veterinarians in practice and training interested in all types of ophthalmic diseases and disorders. Species coverage is mainly dog and cat with additional material on the horse and the cow. Following an outline of the basic elements of ophthalmic science relevant to study and practice, the author provides a detailed description and discussion of each condition including etiology, clinical signs, diagnosis, prognosis, and therapy, plus a chapter on problem-oriented ophthalmology. Dr. Martin has filled an important gap in veterinary ophthalmic literature and has created a valuable resource, focusing throughout on the clinical needs of the

practitioner and the student.
An indispensable and fully comprehensive textbook, this covers the basic sciences in ophthalmology and is the only book you need to pass the FRCOphth Part 1 exam.
Intelligent Control techniques are becoming important tools in both academia and industry. Methodologies developed in the field of soft-computing, such as neural networks, fuzzy systems and evolutionary computation, can lead to accommodation of more complex processes, improved performance and considerable time savings and cost reductions. Intelligent Control Systems using Computational Intellingence Techniques details the application of these tools to the field of control systems. Each chapter gives and overview of current approaches in the topic covered, with a set of the most important references in the field, and then details the author's approach, examining both the theory and practical applications.
This is the second edition of a text devoted to the development of the visual system. The author is one of the leaders in the field of visual neuroscience, currently one of the hottest areas in neuroscience. Visual Development, 2e, covers (i) development of the visual system, (ii) effects of visual deprivation, (iii) mechanisms by which visual deprivation produces its effects, and (iv) a list of some fundamental questions that need to be answered.
Imagination is the key to any discovery, and its presence in the science to improve vision is no exception. Vision science is racing forward, spurred on by a host of exciting novel research discoveries and the efforts of scientists. This book, a collection of reviewed and relevant research chapters, intends to provide readers with a comprehensive overview of the latest and most advanced findings in several aspects of ophthalmology, ophthalmic pathology, ocular imaging, and certain treatments and surgical strategies. It is an excellent, well-integrated review of treatment options in eye disease that aims to provide a thorough overview of the recent developments written by international authors. "Frontiers in Ophthalmology and Ocular Imaging" can be used as an important reference for clinically oriented ophthalmologists and scientists.
First multi-year cumulation covers six years: 1965-70.
Announcements for the following year included in some vols.
The field of professional, academic and vocational qualifications is ever-changing. The new edition of this practical guide provides thorough information on all developments in these areas in the UK. Fully indexed, it includes details on all university awards and over 200 career fields, their professional and accrediting bodies, levels of membership and qualifications. British Qualifications is a unique resource for human resource managers and university admissions officers to verify the qualifications of potential employees and students.
For thousands of years, cataract surgery continues to be the "pearl" of ophthalmic surgery. It is explained by the fact that cataract removal always leads to an increase in visual acuity of patients. A new technology of cataract removal, phacoemulsification, was introduced by Charles Kelman in 1967. Despite this, it was difficult for the surgeons to transform from extracapsular cataract extraction to the new method - phacoemulsification. Recently, in the ophthalmological practice, the method of femtolaser cataract surgery (FLACS) has been introduced. This method allows you to automatically perform the basic stages of cataract surgery - corneal incisions, capsulorhexis, nucleus fracture. At the same time, to apply the various techniques of cataract surgery, the surgeon must possess virtually all the necessary techniques. This is dictated by the fact that, as a rule, cataract itself is rarely isolated - senile. Knowledge of the basic rules of cataract surgery, the use of pupillary rings and iris retractors in narrow pupils, the use of capsular rings in subluxations of the lens, the use of special modes of phaco in severe late cataracts, and a comprehensive clinical way of thinking can undoubtedly reduce the complications of cataract surgery.
Pathologic Myopia is a major cause of severe vision loss worldwide. The mechanisms for vision loss include cataract, glaucoma, retinal detachment, and above all, myopic maculopathy within the posterior staphyloma. The first edition of Pathologic Myopia is one of the only current books to specifically address this disease and discusses recent developments in imaging technologies and various approaches to treatments, such as laser photocoagulation, photodynamic therapy, pharmaco-therapeutic injections in the vitreous, and surgery. This new edition is a timely update to the standard reference in the field, with new chapters on advanced refractive error correction, genetics, developing a classification system, and special surgical approaches for pathologic myopia. Complete with even more high-quality color images and informative tables, this book is written and edited by leaders in the field and is geared towards ophthalmologists, including residents and fellows in training, glaucoma and cataract specialists, and vitreoretinal macula experts.