Basic Sciences In Ophthalmology 1st Edition

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Basic Sciences In Ophthalmology 1st Edition ***2024-05-13***

ELLEN ANTONIO

The Duke Elder Exam of Ophthalmology
Elsevier

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.

Optometry: Science, Techniques and Clinical Management E-Book

Elsevier Health Sciences

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 highl

The Science of Paediatrics: MRCPCH Mastercourse Thieme
This is a self assessment test which covers all aspects of the basic sciences related to ophthalmology. Each chapter comprises a series of MCQs and their explanatory text constitutes an up to date summary of that topic. The book is illustrated with 150 diagrams which compliment the text. It may be used as a revision aid for those about to sit the final FRCO or it may be read as a text book for those wishing to update their knowledge of the basic sciences.

Pathophysiology review. Step 1
Churchill Livingstone
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.

Basic Sciences for Ophthalmology
Lippincott Williams & Wilkins
This selection of articles from the Encyclopedia of the Eye provides a comprehensive overview of immunological features, diseases and inflammation of the eye and its support structures and organs. Rather than taking an immunological focus that is strictly suitable for clinicians, the volume offers a considerable basic science background and addresses a broad range of topics - the

immune system of the eye, its various disorders, mechanisms of inflammation of the eye and visual system, treatment, wound healing mechanisms, stem cells, and more. The first single volume to integrate comparative studies into a comprehensive resource on the neuroscience of ocular immunology Chapters are carefully selected from the Encyclopedia of the Eye by the world's leading vision researchers The best researchers in the field provide their conclusions in the context of the latest experimental results

The Biology of the Eye Springer Science & Business Media

Part of the Oxford Specialty Training series, Basic Sciences for Ophthalmology is an indispensable and fully comprehensive textbook, and the only book candidates will need to pass the FRCOphth Part 1 exam. Directly linked to the Royal College's exam, presented in a full colour, highly illustrated, and easy-to-read format, making the basic science behind ophthalmology more approachable and accessible to improve understanding. Offering full coverage of the Royal College curriculum, the book includes information on anatomy, physiology, biochemistry, and optics. Useful as a resource for the basic sciences in ophthalmology, the book will be also of interest to senior trainees, consultants, optometrists,

orthoptists, and basic scientists, as well as those taking the FRCOphth exams.
Basic Sciences in Practice Elsevier Health Sciences
The Duke Elder Exam of Ophthalmology – A Comprehensive Guide for Success is an indispensable resource for any student wishing to achieve the highest mark on the Duke Elder Exam and receive a prize. With expert knowledge of students and doctors that have scored high on the exam, along with the supervision of well-regarded ophthalmologists and trainees, we believe this is the only resource you will need to achieve a high score on the exam. Key Features In-depth coverage of the Duke Elder Curriculum including the basic sciences, anatomy, optics and all subspecialties of ophthalmology Full colour and easy to read with clinical photographs and diagrams to aid in the understanding of key topics 180 SBAs, which accurately reflect the format and difficulty of the exam
OUP Oxford
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 A Self Assessment Text CRC Press

Written for candidates sitting their MRCP Part 1 examination, this revision focuses on the recurring themes which come up in the questions. The book also includes a chapter on clinical pharmacology (which alone accounts for up to 30% of the questions), looking at aspects of drug-induced disease and drug interactions. Finally there is a chapter on statistics and epidemiology which is rarely covered in other texts, but is often included in the exam. Helps MRCP Part 1 candidates prepare for and pass their exam. Addresses an increasingly important topic in the exam. Addresses a topic that is vital to passing the exam, but which most candidates are poorly

prepared for. Covers all the relevant basic science subjects plus includes clinical pharmacology. Is of use to candidates studying for other postgraduate exams such as PLAB, USMLE and MRCPCH. Is the first book of its kind in the membership market and is now regarded as essential for exam preparation.

Ophthalmology CRC Press

This book is “innovative and original in assisting the reader to apply the principles of science to paediatric practice . Professor Neena Modi, President, Royal College of Paediatrics and Child Health. The Science of Paediatrics, MRCPCH Mastercourse, provides essential background preparation for the MRCPCH Theory and Science examination. It contains an up-to-date review of the application of science to everyday paediatric clinical practice, whether it is interpreting clinical signs or investigations, prescribing drugs or identifying best management. Although this understanding is essential in order to make informed clinical decisions, it is diffi cult to obtain as it is not usually covered in clinical textbooks. Key features • MRCPCH exam-format questions embedded in each chapter to test understanding • Emphasis on embryology to explain many congenital abnormalities • An overview of the relevant anatomy and physiology • Focus on

the application and interpretation of investigations • Examples of recent advances in science and clinical research that have benefi tted the children's care • All clinical specialties covered by paediatric specialists. • Chapters covering evidence-based paediatrics, statistics, ethics and quality improvement.

Physics and Chemistry JP Medical Ltd

There have been books over the years discussing the history of ophthalmology, but none that focus directly on just the most critical thinkers whose insights provided the foundation for the discipline. These men and women advanced knowledge about vision, diagnosis, disease mechanisms, and therapy through innovative thinking and perseverance against old ideas. Their stories are intriguing at a personal level and for showing the complexity of advancing medical science and, therefore, should be required reading for anyone practicing ophthalmology. Foundations of Ophthalmology includes giants such as Young (the nature of color and light), Braille (a practical reading system for the blind), Helmholtz (development of the ophthalmoscope), von Graefe (defining glaucoma), Curie (discovery of radiation and the basis of radiation therapy), Gonin (demonstration how to cure retinal

detachment), Ridley (serendipity that led to intraocular lenses), and Kelman (development of phacoemulsification that revolutionized cataract surgery).

Fundamentals for Ophthalmic Technical Personnel

Springer Nature

Clinical Ophthalmic Genetics and Genomics provides an accessible, clinically-focused reference for the evolving field of Genetic Ophthalmology. This well-organised, easy-to-read textbook integrates key concepts with clinical practice and is designed to enhance effective learning and retention of complex material. It includes contributions from recognised leaders in the field and provides expert guidance on the complete spectrum of genetic ophthalmic disorders. A structured introductory section offering a practical guide to the processes involved in diagnosing patients with genetic ophthalmic disorders Expert guidance on the complete spectrum of genetic ophthalmic disorders from leading international clinicians and researchers Well-organised with streamlined, templated chapters and a user-friendly layout that provides quick access to clinically relevant information, and is designed to help ophthalmologists, geneticists, and genetic counsellors in the clinic room

Structure, Function, Development, and Tractional Disorders

Thieme

OphthoBook is the

printed version of the amazing OphthoBook.com online book and video series. The combination of this text, along with the online video lectures, creates the most informative and easy-to-understand ophthalmology review ever written. It is geared toward medical students, optometry students, and non-ophthalmologists who want to learn more about the eye without getting bogged down with mindless detail. The book is broken down into ten chapters: 1. Eye History 2. Anatomy 3. Glaucoma 4. Retina 5. Infection 6. Neuroophthalmology 7. Pediatric Ophthalmology 8. Trauma 9. Optics 10. Lens and Cataract Each chapter also includes "pimp questions" you might be asked in a clinic. Also, an entire chapter of ophthalmology board-review questions, flashcards, and eye abbreviations. Perhaps most useful, each chapter corresponds to the 20-minute video lectures viewable at OphthoBook.com. And lots of fun cartoons! *Neuro-Ophthalmology Illustrated* Springer Providing a clear explanation of the relevant medical science behind the individual medical specialties, Basic Science for Core Medical Training and the MRCP, is an indispensable part of a candidate's MRCP preparation. Directly linked to the Royal College exam, the book follows the same

systems-based approach as the syllabus for accurate and effective revision. With full coverage of basic science for the medical specialities, the book features material on genetics, cellular, molecular and membrane biology, and biochemistry. Content is presented in an illustrated and easy-to-read format, ensuring that the basic science for each medical specialty is more approachable and accessible. A focus on how the basic sciences aid understanding of clinical practice is reinforced through key tables of differential diagnoses and pharmacology. Ten multiple choice questions at the end of each chapter consolidate learning and enable candidates to test their knowledge. The book also covers common examination errors and areas of misunderstanding to aid learning and help candidates avoid common pitfalls.

Basic Sciences in Ophthalmology

Academic Press

Preceded by The eye / John V. Forrester ... [et al.]. 3rd ed. 2008.

A Comprehensive Guide for Success

McGraw Hill Professional

Covers every aspect of ophthalmology, combining the latest on genetics, diagnostic tips and techniques, proven management strategies, surgical approaches, new drugs, and more. An esteemed author team and contributions of hundreds of top-tier

practitioners provide guidance on practically every ophthalmic condition and procedure. It is filled with a collection of 2,500 detailed photographic images, and includes a CD-ROM with full text, slides, and navigation tools for quick access and easy use.

Great Insights that Established the Discipline Elsevier Health Sciences

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. OphthoBook Elsevier Artificial Intelligence Medicine: Technical Basis and Clinical Applications presents a comprehensive overview of the field, ranging from its history and technical foundations, to specific clinical applications and finally to prospects. Artificial Intelligence (AI) is expanding across all domains at a breakneck speed. Medicine, with the availability of large multidimensional datasets, lends itself to strong potential advancement with the appropriate harnessing of AI. The integration of AI can occur throughout the continuum of medicine: from basic laboratory discovery to clinical application and healthcare delivery. Integrating AI within medicine has been met with both excitement and scepticism. By understanding how AI works, and developing an appreciation for both limitations and strengths, clinicians can harness its computational power to streamline workflow and improve patient care. It also provides the opportunity to improve upon research methodologies beyond what is currently available using traditional statistical approaches. On the other hand, computers scientists and data analysts can provide solutions, but often lack easy access to clinical insight that may help focus their efforts. This book

provides vital background knowledge to help bring these two groups together, and to engage in more streamlined dialogue to yield productive collaborative solutions in the field of medicine. Provides history and overview of artificial intelligence, as narrated by pioneers in the field Discusses broad and deep background and updates on recent advances in both medicine and artificial intelligence that enabled the application of artificial intelligence Addresses the ever-expanding application of this novel technology and discusses some of the unique challenges associated with such an approach

Basic Ophthalmology

Academic Press

An introduction to the theory and practice of optometry in one succinct volume. From the fundamental science of vision to clinical techniques and the management of common ocular conditions, this book encompasses the essence of contemporary optometric practice. Now in full colour and featuring over 400 new illustrations, this popular text which will appeal to both students and practitioners wishing to keep up to date has been revised significantly. The new edition incorporates recent advances in technology and a complete overview of clinical procedures to improve and update everyday patient care. Contributions from

well-known international experts deliver a broad perspective and understanding of current optometric practice. A useful aid for students and the newly qualified practitioner, while providing a rapid reference guide for the more experienced clinician. Comprehensive and logical coverage detailing the full spectrum of optometric practice in one volume. Succinctly covers the basics of anatomy, physiology, pharmacology, investigative techniques and clinical management of common eye conditions to provide key topics likely to be met in clinical practice. Discusses the full range of refractive correction, from spectacles and contact lenses to surgical treatment. Includes chapters on the management of special populations, including paediatric, elderly, low vision and special needs patients. Heavily illustrated throughout with key diagrams and images to support the text. Complete restructuring of contents into three sections: basic sciences, clinical techniques and patient management. Full colour throughout with over 400 illustrations. Many new chapters reflecting the changes in optometric practice and technology over the last 20 years, including new imaging and diagnostic procedures and methods of ocular treatment and

refractive correction. Now includes internationally renowned authors from around the world. Details a full range of refractive and management approaches for patient care.

Physics and Chemistry

Mosby Incorporated

Praise for this book:[Five stars] Provid[es] succinct and easy to understand information with excellent illustrations...the wealth of color illustrations [are] invaluable to students learning about these disorders.--Doody's ReviewWith nearly 900 illustrations and the combined 40-year experience of the authors, Neuro-Ophthalmology Illustrated serves as an atlas and a source of concise clinical information on the entire field. From anatomy and pathophysiology to diagnosis and management, the book provides a unique approach to thinking about, assessing, and treating neuro-ophthalmic disorders. It offers a how-to on performing the essential examination, and covers disorders of the visual afferent system, the pupil, ocular motor efferent systems, and the orbit and lid. The authors also point out the important neuro-ophthalmologic manifestations associated with common neurologic and systemic disorders.Highlights: Offers a basic introduction to anatomy, physiology,

and examination of the eye for neurology students Teaches brain anatomy and the fundamentals of neuro-imaging to ophthalmologists Provides the coherent approach of two master teachers in the field Begins each chapter with a quick outline of contents, and concludes with a comprehensive index Features a handy examination chart and near card for easy reference A portable atlas, manual, and study guide in one, Neuro-Ophthalmology Illustrated is perfect for residents preparing for board examinations in ophthalmology, neurology and neurosurgery. Practitioners and instructors of neuro-ophthalmology will also find this highly visual pocketbook a useful reference in their practice and classroom.