

# Basic Sciences In Ophthalmology 1st Edition

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Neuro-Ophthalmology Illustrated Valerie Biousse 2011-01-01 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.

Lacrimal Gland, Tear Film, and Dry Eye Syndromes 3 David A. Sullivan 2013-11-11 During the past several decades, a significant international research effort has been directed towards understanding the composition and regulation of the precocular 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 potentially pronounced visual disability and blindness.

Clinical Optics Andrew R. Elkington 1999-08-25 Written to help trainee ophthalmologists, this textbook is now the recognised text on optics for the examinations of the Royal College of Ophthalmologists and the Royal Surgical Colleges. It approaches the subject from first principles and assumes no previous knowledge of optics. The book has been kept as simple as possible and is liberally complemented with diagrams designed to be easily understood and memorised. Only the most fundamental and clinically useful mathematical formulae are quoted, and the optical principles are applied to clinical situations. Ophthalmology examinations have changed substantially since the last edition was written and a total rewrite of this essential guide has become necessary. The third edition has been made more comprehensive and detailed to keep up with these changes and incorporates three new chapters: refractive surgery, contact lenses and lasers. Other new material includes photometry, visual acuity, contrast sensitivity, colour vision, absorptive lenses, fluorescence, ultrasound, and the specular microscope.

Basic Ophthalmology Cynthia A. Bradford 2004-01-01 Provides the information needed for the diagnosis, management, and referral of common ocular disorders. This edition includes updated images and resources, additional sample problems, and the latest information on such areas as glaucoma care and eye-related aging changes. Historical information is also emphasized in evaluating visual complaints and assessing risk factors for ocular disease. MCQs for FRCOphth and ICO Basic Sciences Examinations Sameer Trikha 2012-01-22 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 high

Python Data Science Handbook Jake VanderPlas 2016-11-21 For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

Ophthalmology Fact Fixer Chung Nen Chua 2017-11-22 So what's so special about doctors and their families? Many doctors feel that they are expected to give too much of their time to a medical career to the detriment of their family and their personal lives. This book is a practical guide to provide support and ideas on how to cope with stresses directly suffered or passed on from a relative or spouse. Written in a clear and practical style using information collated from family members describing their feelings about having a doctor in the family it provides unique and vital information on how to minimise the effects of having a medical career on the family. Essential reading for doctors and their families.

Cornea Douglas Coster 2001-12-21 The cornea is the ecosystem that connects the internal with the external eye. Defects and disorders in this delicate layer of tissue are frequent, painful and potentially damaging to the internal functioning of the eye. Conversely, disorders of the conjunctiva, eyelids, and tear mechanisms can affect the cornea. This concise, practical text discusses this interrelationship, giving a comprehensive overview of the cornea and its common disorders, with the emphasis on diagnosis and treatment. Outstanding colour illustrations provide added diagnostic information. Written by leading international specialists in the cornea, this book joins the Fundamentals in Clinical Ophthalmology series as an ideal reference for all practising ophthalmologists, and those in specialist training.

Revision in Sciences Basic to Ophthalmology Raman Malhotra 1997-10-31 This is a self-assessment book for candidates for postgraduate examinations in ophthalmology, principally the FRCOphth Part I. It covers all of the sciences fundamental to ophthalmology: anatomy (60 questions), physiology (93 questions), pharmacology (36), pathology (33) and microbiology (42). Questions are grouped according to specialty area, followed by true/false answers that are all supported with concise explanations. The book can therefore be used for learning as well as practice. The book's most innovative feature is the set of 21 structured essay plans, covering the major topics of concern in this field. It is notoriously difficult to provide model answers to essay questions, but here the authors have developed a new, highly visual approach with the consistent use of icons, to provide an at-a-glance understanding.

Ophthalmology Myron Yanoff 2004 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.

Encyclopedia of the Eye Joseph Besharse 2010-05-27 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

Occupational Outlook Handbook United States. Bureau of Labor Statistics 1976

Genetics and Genomics of Eye Disease Xiaoyi Raymond Gao 2019-09-12 Genetics and Genomics of Eye Disease: Advancing to Precision Medicine thoroughly examines the latest genomics methods for studying eye disease, including complex eye disorders associated with multiple genes. GWAS, WES, WGS, RNA-sequencing, and transcriptome analysis as employed in ocular genomics are discussed in-depth, as are genomics findings tied to early-onset glaucoma, strabismus, age-related macular degeneration, adult-onset glaucoma, diabetic retinopathy, keratoconus, and leber congenital amaurosis, among other diseases. Research and clinical specialists offer guidance on conducting preventative screenings and counseling patients, as well as the promise of machine learning, computational statistics and artificial intelligence in advancing ocular genomics research. Offers thorough guidance on conducting genetic and genomic studies of eye disease Examines the genetic basis of a wide range of complex eye diseases and single-gene and Mendelian disorders Discusses the application of genetic testing and genetic risk prediction in eye disease diagnosis and patient counseling

The Eye John V. Forrester 2015-04-01 Preceded by The eye / John V. Forrester ... [et al.]. 3rd ed. 2008.

OphthoBook Timothy Root 2009-07-01 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!

Basic Ophthalmology Renu Jogi 2016-10-17 Fully revised, new edition presenting students with latest information in field of ophthalmology. Covers all sections of the eye and associated disorders and diseases. Previous edition published in 2008.

Basic Sciences in Ophthalmology John Ferris 1998-12-08 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.

The Biology of the Eye Jorge Fischbar 2005-12-09 Acknowledgement This book is the result of a collective effort. Due to an oversight, mention of three of the contributors who played an especially decisive role in bringing the work to fruition was omitted from the book. They should share fully in the intellectual credits accruing from this publication. I would therefore like to acknowledge and thank the following for their outstanding contributions to editing the work: Dr. Morten Dornonville la Cour (MD, Dr. Med. Sci.) solicited and edited the chapters on retina, RPE, choroid, vitreous, immunology, and sclera. Dr. la Cour is a Lecturer, Eye Department, Copenhagen University Hospital, specializes in vitreoretinal surgery, and frequently lectures in the international scene. A trained mathematician, he has done research in retinal pigment epithelial physiology in the laboratories of Drs. Thomas Zeuthen and Sheldon Miller. Dr.

Friedrich P.J. Diecke and Dr. Elliott M. Kanner also provided invaluable editorial assistance. Dr Diecke, who was formerly Professor and Chairman of the Department of Physiology, UMDNJ-New Jersey Medical School, is a Professor Emeritus at that institution. His research has concentrated on membrane transport mechanisms in lens epithelial cells, corneal endothelial cells and peripheral nerve and on the regulation of vascular smooth muscle contraction. Dr. Elliott M. Kanner was born in Canada in 1970. He graduated from Yale University in 1992 with a BS/MS degree in Molecular Biophysics and Biochemistry. He received his PhD degree from the Rockefeller University in 1999 and his MD degree from Weill/Cornell in 2001. He is currently an Ophthalmology resident at Columbia University. Jorge Fischbar, December 2005 This book explores the many recent novel ideas about the eye in a systematic and synthetic way. It includes both basic sciences and applications towards clinical research. Chapters include both anatomical and functional descriptions of the different ocular tissues and treatments of a few subjects of practical importance for ophthalmologists. This book is intended for students in basic biomedical science interested in the eye, as well as ophthalmologists a comprehensive source on recent developments in ocular research. \* Combines basic science and practical ophthalmological subjects \* Written with the simplicity of a textbook, while maintaining the comprehensive and rigorous approach of science papers \* Includes contributions by well-known experts

The Wills Eye Manual Nika Bagheri 2016-04-19 For more than 25 years, The Wills Eye Manual has been a best-selling source of authoritative guidance on treating ocular disorders in an office, emergency room, or hospital setting.

The 7th Edition introduces exciting new changes to bring this pocket-sized reference thoroughly up to date – including high-quality multimedia content – while retaining the features that have made it so useful in daily practice.

Basic Ophthalmology Richard Cutler Allen 2016

Immunology, Inflammation and Diseases of the Eye Darlene A. Dartt 2011-02-26 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 Fovea Andreas Bringmann 2021-08-28 The Fovea: Structure, Function, Development, and Disease summarizes the current biological knowledge regarding the two types of the vertebrate fovea (and its main structural elements, the Müller cells). This information is then used to explain different aspects of human vision, foveal development, and macular disorders. Sections give an overview of the retinal structure and the different types of retinal glia, survey the structure and function of the primate and non-mammalian fovea types, discuss foveal development—with a focus on the human fovea, cover the roles of Müller cells and astrocytes in the pathogenesis and regeneration of various human macular disorders are described. Using a translational approach, this reference is a valuable text for scientists, clinicians and physicians interested in the fovea. Readers will gain a new understanding of the cellular basics of the fovea, which is the most important part of the eye. Adopts a translational approach, summarizing the biological knowledge regarding the structure and function of the fovea, the roles of Müller cells in mediating the structural integrity, and function of the fovea Provides overviews of both basic types of the vertebrate fovea, countering the popular belief that there is only one type of the vertebrate fovea, the human fovea Thoroughly shows the mechanisms involved in the development of the fovea that explain the rapid improvement of visual acuity in newborns Explains pathological changes in the foveal structure and function with evaluation pointing toward possible prevention and/or cure

The Wisdom of the Eye David M. Miller 2000-06-21 The Wisdom of the Eye is a survey of the major concepts underlying many of the basic sciences related to the human eye and visual brain in one volume, using anecdotes and a minimum of highly technical language to emphasize the important points. This book presents an up-to-date treatment on how the eye and visual system work to help us see, interpret what we see, and communicate what we feel. It also examines how this description of the visual system teaches us more about ourselves. Written in a user-friendly style, absent of jargon Humanizes vision research using anecdotes Uses many original illustrations and examples to demonstrate concepts Provides a synthesis of many disciplines including ophthalmology, optometry, and basic science Presents the visual system consistently in the context of its survival advantages Covers a wide variety of topics including infant vision, adult retinal image, animal vision, eye injuries, refractive areas, the eye as a transmitter and receiver of information, optical illusions, color, visual awareness, and more

Basic Sciences for Core Medical Training and the MRCP Neil Herring 2015-10-29 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 speciality 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.

Eye Movement Basics for the Clinician Kenneth J. Ciuffreda 1995 Using a clinically oriented framework, this reference describes the basic aspects of eye movement control as well as clinical implications and practical use. Covers basic eye movement systems and eye movement recording systems along with listings of the various types, costs and characteristics of each. Extensive use of graphics, case studies and original eye movement recordings makes it an easy-to-use resource.

The World Book Encyclopedia

2002 An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

**Clinical Guide to Comprehensive Ophthalmology** David A. Lee 1999 To keep pace in today's competitive environment, comprehensive ophthalmologists must broaden the scope of their practice while still offering the highest standard of care in a time-pressured setting. This authoritative new text- in a clear a, user-friendly format- provides the wide coverage and quick access demanded in day-to-day practice. The book's practical, patient-oriented approach gives pointers for carrying out an examination and determining diagnosis and treatment strategies. To enable quick access to needed information, the text begins with the patient's presenting signs and symptoms, and progresses to in-depth coverage of individual clinical disorders. All are arranged by anatomical and functional systems. This is the ideal choice for practitioners and residents who need an authoritative and practical resource for quick, everyday reference.

**Basic Medical Sciences for MRCP** Philippa J. Easterbrook 2005 A revision book intended primarily for candidates sitting their MRCP Part 1 examination and which covers all the essential basic sciences. It 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. Despite the changes to the teaching of the undergraduate in medicine and the integration of the basic sciences with clinical education, the junior doctor, faced with postgraduate examinations, is always going to be poorly prepared for those increasingly important subjects. This book presents the essential information in the form of lists, tables, diagrams and flow charts.

**Essentials of Veterinary Ophthalmology** Kirk N. Gelatt 2022-05-26 A user-friendly reference to basic, foundational information on veterinary ophthalmology This book provides readers with a user-friendly manual to the basics of veterinary ophthalmology. It puts a focus on the most relevant information for clinical practice. Emphasizing canine ophthalmology, the book also covers the foundations of feline, equine, farm animal, and exotic animal ophthalmology. To aid in reader comprehension and information assimilation, a companion website presents review questions and the figures from the book in PowerPoint. Sample topics covered within the work include: Ophthalmic foundations: ophthalmic development and structure, physiology of the eye and vision, and ocular pharmacology and therapeutics Canine ophthalmology: canine orbit (disease and surgery), canine eyelids (disease and surgery), canine lacrimal apparatus (tear secretion and drainage), canine cornea (diseases and surgery) and canine glaucoma Other species: feline ophthalmology, equine ophthalmology, and food and fiber animal ophthalmology Ophthalmic and systemic diseases: comparative neuro-ophthalmology and systemic disease and the eye Essentials of Veterinary Ophthalmology is a useful guide for veterinary students and practitioners looking to build out their core foundations of knowledge within their specific programs of study and disciplines.

**Encyclopedia of Supramolecular Chemistry** J. L. Atwood 2004 Crystallizing a rapidly expanding interdisciplinary field and one of the most popular and newsworthy areas in contemporary chemistry, this two-volume encyclopaedia offers authoritative information with user-friendly and high-quality articles.

**Basic Sciences in Ophthalmology** Josef Flammer 2013-02-19 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.

**Ophthalmology** Louis E. Probst 2012 A highly illustrated, comprehensive, yet accessible, guide to medical and surgical ophthalmology that succinctly addresses the diagnosis and treatment of all major diseases of the eye. The editors, along with the 16 world expert subspecialty contributors, have organized the concise, clinically focused, and user-friendly chapters by subspecialty and include the indications, techniques, and complications of common ophthalmic surgical procedures. This attentive chapter organization reflects the way modern-day ophthalmology is practiced. It delivers practical emphasis, allowing the reader to apply the information into a clinical setting.

**Clinical Anatomy of the Eye** Richard S. Snell 2013-04-09 Clinical Anatomy of the Eye has proved to be a very popular textbook for ophthalmologists and optometrists in training all over the world. The objective of the book is to provide the reader with the basic knowledge of anatomy necessary to practice ophthalmology. It is recognised that this medical speciality requires a detailed knowledge of the eyeball and the surrounding structures. The specialist's knowledge should include not only gross anatomic features and their development, but also the microscopic anatomy of the eyeball and the ocular appendages. The nerve and blood supply to the orbit, the autonomic innervation of the orbital structures, the visual pathway, and associated visual reflexes should receive great emphasis. The practical application of anatomic facts to ophthalmology has been emphasised throughout this book in the form of Clinical Notes in each chapter. Clinical problems requiring anatomic knowledge for their solution are presented at the end of each chapter. Illustrations are kept simple and overview drawings of the distribution of the cranial and autonomic nerves have been included.

**Eye Yield** Saif Aldeen Saleh AIRyalat 2021-07-21 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.

**Anatomy ;Ocular physiology ;Biochemistry and genetics ;Pathology ;Microbiology ;Immunology ;Growth and senescence ;Optics ;Therapeutics ;Lasers and instrument technology ;Basic biostatistical and epidemiological terms** Louise Bye 2013-05-23 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.

**An Introduction to Childhood Studies** Mary Jane Kehily 2008-11-01 "This thoughtful book provides expert overviews of historical, sociological, psychological, cultural, legal and rights-informed approaches to childhood. Through these well written, readable chapters, students will be engaged with important debates in childhood studies, and led towards many ideas and problems for further investigation. This second edition includes new chapters arguing strongly for interdisciplinarity and for measured responses to the current 'crisis' in UK childhoods." Berry Mayall, Institute of Education, University of London, UK An Introduction to Childhood Studies offers a wide-ranging and thought-provoking approach to the study of childhood, providing an important contribution to this burgeoning area of research and teaching. It brings together key themes in the area of Childhood Studies, providing a comprehensive and accessible introduction for students and practitioners, helping to answer questions such as: What is childhood and how can it be studied and understood? How is the idea of childhood shaped by the society we live in? The contributors - who are leading figures in their fields - examine childhood from historical, socio-cultural and policy perspectives. They explore aspects such as the construction of childhood, children's literature, childhood in the digital age and children's rights. Revised and updated throughout, the new edition includes: An expanded introductory chapter - Childhood Studies: past, present, future A new chapter on children's rights and educational provision A new concluding chapter - The future of childhood Revised and updated chapters Further reading suggestions for each chapter An Introduction to Childhood Studies is a key text for students on courses in childhood studies, child psychology, social policy and the sociology of youth and childhood.

**Artificial Intelligence and Ophthalmology** Parul Ichhpujani 2021-04-22 The book helps to explore the vast expanse of artificial intelligence-based scientific content that has been published in the last few years. Ophthalmology has recently undergone a silent digital revolution, with machine learning and deep learning algorithms consistently outperforming human graders in studies published across the globe. It is high time that a resource that breaks this information behemoth into easily digestible bits comes to the fore. This book simplifies the complex mechanics of algorithms used in ophthalmology and vision science applications. It also tries to address potential ethical issues with machines entering our clinics and patients' lives. Overall it is essential reading for ophthalmologists/eye care professionals interested in artificial intelligence and everyone who is looking for a deep dive into the exciting world of digital medicine.

**Spinning the Semantic Web** Dieter Fensel 2005 A guide to the Semantic Web, which will transform the Web into a structured network of resources organized by meaning and relationships.

**The Pancreas** Hans G. Beger 2018-04-23 This brand new updated edition of the most comprehensive reference book on pancreatic disease details the very latest knowledge on genetics and molecular biological background in terms of anatomy, physiology, pathology, and pathophysiology for all known disorders. Included for the first time, are two brand new sections on the key areas of Autoimmune Pancreatitis and Benign Cystic Neoplasms. In addition, this edition is filled with over 500 high-quality illustrations, line drawings, and radiographs that provide a step-by-step approach to all endoscopic techniques and surgical procedures. Each of these images can be downloaded via an online image bank for use in scientific presentations. Every existing chapter in The Pancreas: An Integrated Textbook of Basic Science, Medicine and Surgery, 3rd Edition has been thoroughly revised and updated to include the many changes in clinical practice since publication of the current edition. The book includes new guidelines for non-surgical and surgical treatment; new molecular biologic pathways to support clinical decision making in targeted treatment of pancreatic cancer; new minimally invasive surgical approaches for pancreatic diseases; and the latest knowledge of neuroendocrine tumors and periampullary tumors. The most encyclopedic book on the pancreas—providing outstanding and clear guidance for the practicing clinician Covers every known pancreatic disorder in detail including its anatomy, physiology, pathology, pathophysiology, diagnosis, and management Completely updated with brand new chapters Over 500 downloadable illustrations An editor and author team of high international repute who present global best-practice The Pancreas: An Integrated Textbook of Basic Science, Medicine and Surgery, 3rd Edition is an important book for gastroenterologists and gastrointestinal surgeons worldwide.

**The Ultimate Guide To Choosing a Medical Specialty** Brian Freeman 2004-01-09 The first medical specialty selection guide written by residents for students! Provides an inside look at the issues surrounding medical specialty selection, blending first-hand knowledge with useful facts and statistics, such as salary information, employment data, and match statistics. Focuses on all the major specialties and features firsthand portrayals of each by current residents. Also includes a guide to personality characteristics that are predominate with practitioners of each specialty. "A terrific mixture of objective information as well as factual data make this book an easy, informative, and interesting read." --Review from a 4th year Medical Student