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Elastic Light Scattering Spectrometry Cheng Zhi Huang 2018-12-17 This book introduces the basics of light scattering and then presents theoretical methods and applications of elastic light scattering spectrometry in the field of analytical chemistry. Different elastic light scattering probes and how to use elastic light scattering probes for the analysis of inorganic ions, organic molecules, nucleic acids, proteins, biological microparticles, water and the atmospheric environment are discussed in detail.

Catastrophic Perioperative Complications and Management Charles J. Fox, III 2019-03-19 For years the administrative of anesthesia was extremely dangerous and risky. Because of this the surgeon and anesthesiologist had to balance the risks and benefits for each patient before proceeding with surgery. In the last two decades the care of the surgical patient has changed dramatically. New equipment, monitors and pharmacologic agents have transformed surgical technique and improved outcomes. Patients once deemed "too sick" for the operating room are found frequently on operating room schedules nationwide. Today, anesthesiology for the healthy patient in most developed countries is extremely safe. However, perioperative complications still occur. These events can be catastrophic for patients and may have serious implications for residents, surgical and anesthesiology staff and nurses. Prompt recognition and management of these incidents may reduce or negate complications. This is based on a fundamental base of knowledge acquired through several avenues and practiced with other team members to maximize outcomes. Engagement of all caregivers impacts outcomes. Many organizations do not have the structural components or education to recognize or manage these catastrophic events. This textbook will provide educational material for the many students, as well as nurses, residents or attending physicians who participate in perioperative medicine. It will focus on the most serious perioperative complications and include a discussion of the pathophysiologic and pharmacologic implications unique to each. Additionally, it will provide medicolegal information pertinent to those providing care to these patients. All chapters will be written with the most current and relevant information by leading experts in each field. The layout and format is designed to be purposeful, logical and visually effective. Other features include review questions and answers, chapter summaries and shaded call-out boxes to facilitate learning. Catastrophic Perioperative Complications and Management will be of great utility for medical and nursing students, anesthesiology residents, student nurse anesthetists, surgical residents, nurses involved in perioperative medicine as well as surgical and anesthesiology attending physicians.

Visual Psychophysics Zhong-Lin Lu 2013-10-11 A comprehensive treatment of the skills and techniques needed for visual psychophysics, from basic tools to sophisticated data analysis. Vision is one of the most active areas in biomedical research, and visual psychophysical techniques are a foundational methodology for this research enterprise. Visual psychophysics, which studies the relationship between the physical world and human behavior, is a classical field of study that has widespread applications in modern vision science. Bridging the gap between theory and practice, this textbook provides a comprehensive treatment of visual psychophysics, teaching not only basic techniques but also sophisticated data analysis methodologies and theoretical approaches. It begins with practical information about setting up a vision lab and goes on to discuss the creation, manipulation, and display of

visual images; timing and integration of displays with measurements of brain activities and other relevant techniques; experimental designs; estimation of behavioral functions; and examples of psychophysics in applied and clinical settings. The book's treatment of experimental designs presents the most commonly used psychophysical paradigms, theory-driven psychophysical experiments, and the analysis of these procedures in a signal-detection theory framework. The book discusses the theoretical underpinnings of data analysis and scientific interpretation, presenting data analysis techniques that include model fitting, model comparison, and a general framework for optimized adaptive testing methods. It includes many sample programs in Matlab with functions from Psychtoolbox, a free toolbox for real-time experimental control. Once students and researchers have mastered the material in this book, they will have the skills to apply visual psychophysics to cutting-edge vision science. Updates on Myopia Tien Y Wong 2020-10-08 This book is open access under a CC BY 4.0 license. This open access book discusses basic clinical concepts of myopia, prevention of progression and surgical treatments for myopia and pathological myopia. It also summarises the latest evidence and best practices for managing myopia, high myopia and its complications. Written by leading experts, the book addresses clinical diagnosis and interpretation of imaging modalities, and various complications of myopia such as glaucoma, choroidal neovascularization, retinal degeneration and cataracts. It is a valuable comprehensive resource for general and sub-specialist ophthalmologists as well as residents and ophthalmologists in training.; This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Healthy Aging Patrick P. Coll 2019-03-29 This book weaves all of these factors together to engage in and promote medical, biomedical and psychosocial interventions, including lifestyle changes, for healthier aging outcomes. The text begins with an introduction to age-related changes that increase in disease and disability commonly associated with old age. Written by experts in healthy aging, the text approaches the principles of disease and disability prevention via specific health issues. Each chapter highlights the challenge of not just increasing life expectancy but also decreasing disease burden and disability in old age. The text then shifts into the whole-person implications for clinicians working with older patients, including the social and cultural considerations that are necessary for improved outcomes as Baby Boomers age and healthcare systems worldwide adjust. Healthy Aging is an important resource for those working with older patients, including geriatricians, family medicine physicians, nurses, gerontologists, students, public health administrators, and all other medical professionals.

Ewing's Analytical Instrumentation Handbook, Fourth Edition Nelu Grinberg 2019-02-21 This handbook is a guide for workers in analytical chemistry who need a starting place for information about a specific instrumental technique. It gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique. This edition thoroughly expands and updates the chapters to include concepts, applications, and key references from recent literature. It also contains a new chapter on process analytical technology.

Advances in Ceramics Costas Sikalidis 2011-08-09 The current book contains twenty-two chapters and is divided into three sections. Section I consists of nine chapters which discuss synthesis through innovative as well as modified conventional techniques of certain advanced ceramics (e.g. target materials, high strength porous ceramics, optical and thermo-luminescent ceramics, ceramic powders and fibers) and their characterization using a combination of well known and advanced techniques. Section II is also composed of nine chapters, which are dealing with the aqueous processing of nitride ceramics, the shape and size optimization of ceramic components through design methodologies and manufacturing technologies, the sinterability and properties of ZnNb oxide ceramics, the grinding optimization, the redox behaviour of ceria based and related materials, the alloy reinforcement by ceramic particles addition, the sintering study through dihedral surface angle using AFM and the surface modification and properties induced by a laser beam in pressings of ceramic powders. Section III includes four chapters which are dealing with the deposition of ceramic powders for oxide fuel cells preparation, the perovskite type ceramics for solid fuel cells, the ceramics for laser applications and fabrication and the characterization and modeling of protonic ceramics.

MicroComputed Tomography Stuart R. Stock 2018-10-03 Due to the availability of commercial laboratory systems and the emergence of user facilities at synchrotron radiation sources, studies of microcomputed tomography or microCT have increased exponentially. MicroComputed Technology provides a complete introduction to the technology, describing how to use it effectively and understand its results. The first part of the book focuses on methodology, covering experimental methods, data analysis, and visualization approaches. The second part addresses various microCT applications, including porous solids, microstructural evolution, soft tissue studies, multimode studies, and indirect analyses. The author presents a sufficient amount of fundamental material so that those new to the field can develop a relative understanding of how to design their own microCT studies. One of the first full-length references dedicated to microCT, this book provides an accessible introduction to field, supplemented with application examples and color images.

Soil Analysis J. Gautheyrou 2001-01-01 The objective of this book is to provide a better understanding of tools for soil analysis in order to use them more efficiently. It covers sampling problems as well as difficulties relating to

actual analysis and quality control.

Pig Design Patterns Pradeep Pasupuleti 2014-04-17 A comprehensive practical guide that walks you through the multiple stages of data management in enterprise and gives you numerous design patterns with appropriate code examples to solve frequent problems in each of these stages. The chapters are organized to mimic the sequential data flow evidenced in Analytics platforms, but they can also be read independently to solve a particular group of problems in the Big Data life cycle. If you are an experienced developer who is already familiar with Pig and is looking for a use case standpoint where they can relate to the problems of data ingestion, profiling, cleansing, transforming, and egressing data encountered in the enterprises. Knowledge of Hadoop and Pig is necessary for readers to grasp the intricacies of Pig design patterns better.

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.

Insect Histology Pedro Barbosa 2014-10-03 This title is a much needed update of Barbosa's self-published Manual of Basic Techniques in Insect Histology. It is a laboratory manual of 'traditional' and 'modern' insect histology techniques, completely revised using cutting-edge methodology carried out today and includes new immunohistochemical techniques not previously looked at. Insect Histology is designed as a resource for student and professional researchers, in academia and industry, who require basic information on the procedures that are essential for the histological display of the tissues of insects and related organisms.

Ophthalmology in Military and Civilian Casualty Care Christopher J. Calvano 2019-07-30 Trauma to the eye and associated structures account for a significant number of combat-related injuries, and combat ocular trauma has steadily risen in frequency over the last century. *Ophthalmology in Military and Civilian Casualty Care* comprehensively examines the accommodations and modifications that must be made in order to treat such ocular traumas in a military setting. Created by ophthalmology experts actively serving in the military at various levels, this book is designed to improve ophthalmic casualty outcomes across military settings. A history of military ophthalmology serves as the opening chapter, setting the stage for subsequent chapters examining the intricacies and advancements of damage control ophthalmology, prehospital care of combat eye injuries, neuro-ophthalmic manifestations of trauma, and further severe ocular conditions. Later chapters explore the preventative and proactive efforts to reduce and treat combat-related ocular trauma by developing "eye armor" for the American infantry and military-affiliated ophthalmic surgical missions. Complete with high-quality color illustrations and figures, this unique book will serve as an invaluable, practical reference for military physicians, military ophthalmologists, ophthalmology professors, residents, and fellows interested in combat medicine and eye trauma.

Refractive Lens Surgery Howard Fine I 2005-12-06 • Compiles the best cutting-edge practices for achieving success with refractive lens exchange • Features the latest micro incision lens extraction techniques • Well-known group of authors, with Fine and Packer being especially famous in the US • Serves as textbook and reference guide for Ophthalmologists • Clearly structured and richly illustrated

Handbook of Soil Analysis Marc Pansu 2007-04-18 This handbook is a reference guide for selecting and carrying out numerous methods of soil analysis. It is written in accordance with analytical standards and quality control approaches. It covers a large body of technical information including protocols, tables, formulae, spectrum models, chromatograms and additional analytical diagrams. The approaches are diverse, from the simplest tests to the most sophisticated determination methods.

Ready, Set, SCIENCE! National Research Council 2007-11-30 What types of instructional experiences help K-8 students learn science with understanding? What do science educators, teachers, teacher leaders, science specialists, professional development staff, curriculum designers, and school administrators need to know to create and support such experiences? *Ready, Set, Science!* guides the way with an account of the groundbreaking and comprehensive synthesis of research into teaching and learning science in kindergarten through eighth grade. Based on the recently released National Research Council report *Taking Science to School: Learning and Teaching Science in Grades K-8*, this book summarizes a rich body of findings from the learning sciences and builds detailed cases of science educators at work to make the implications of research clear, accessible, and stimulating for a broad range of science educators. *Ready, Set, Science!* is filled with classroom case studies that bring to life the research findings and help readers to replicate success. Most of these stories are based on real classroom experiences that illustrate the complexities that teachers grapple with every day. They show how teachers work to select and design rigorous and engaging instructional tasks, manage classrooms, orchestrate productive discussions with culturally and linguistically diverse groups of students, and help students make their thinking visible using a variety of representational tools. This book will be an essential resource for science education practitioners and contains information that will be extremely useful to everyone – including parents – directly or

indirectly involved in the teaching of science.

Evidence-Based Caries Prevention Ece Eden 2016-09-29 This book aims to define the etiological factors in dental caries and to guide the clinician towards methods of caries prevention that are evidence based. The coverage includes discussion of the active role of the biofilm and the oral environment and emphasizes the multifactorial etiology of dental caries. The opening chapters describe the early detection and diagnosis of dental caries, highlight the value of caries risk assessment to the patient, and explain the dynamic process of the demineralization–remineralization cycle. Information is presented on the action of fluoride, and the evidence relating to the use and effectiveness of remineralization agents and biomimetic materials is reviewed. Additionally, the effects of antimicrobials such as chlorhexidine and ozone are summarized. Further chapters focus on dietary counseling (with information on sweeteners and probiotics), the effectiveness of sealants in caries prevention, and resin infiltration. The philosophy of prophylaxis and ways to improve patient compliance and achieve proper mechanical plaque removal are discussed. The book is concluded with a chapter discussing preventive actions in representative cases.

The World of the Maya Sam Osmanagich 2005 Sam Osmanagich transports the reader to ruined Mayan cities including the brilliant Chichen Itza, elegant Uxmal, artistic Copan, magical Palenque, forgotten Ek Balam, beautiful Izamal, hidden Yaxchilan, spiritual Oxkintok, monumental Coba, and colossal Tikal.

The Ophthalmic Assistant E-Book Harold A. Stein 2017-01-31 Freeman, is your go-to resource for practical, up-to-date guidance on ocular diseases, surgical procedures, medications, and equipment, as well as paramedical procedures and office management in the ophthalmology, optometry, opticianry or eye care settings. Thoroughly updated content and more than 1,000 full-color illustrations cover all the knowledge and skills you need for your day-to-day duties as well as success on certification and recertification exams. This comprehensive text provides essential learning and practical guidance for ophthalmic assistants, technicians, medical technologists, physician assistants, and all others involved in ocular care, helping each become a valuable asset to the eye care team. Full-color visual guidance for identification of ophthalmic disorders, explanations of difficult concepts, and depictions of the newest equipment used in ophthalmology and optometry. Quick-reference appendices provide hospital/practice forms for more efficient patient record keeping, conversion tables, and numerous language translations, plus information on ocular emergencies, pharmaceuticals, and more. Updated throughout with the latest information on basic science, new testing procedures, new equipment, the role of the assistant in the practice, and an expanded chapter on OCT imaging. A new bonus color image atlas tests your clinical recognition of disease and disorders of the eye. Four brand-new chapters cover the latest industry advances regarding dry eye, vision function and impairment, uveitis, and surgical correction of presbyopia.

Peppered Minds Om Somani 2020-02-18 Peppered Minds is about the journey of a young geologist, Neeraj, beginning his professional life. His imaginative mind conjures up a thesis presented on a brainstorming session for the welfare of his countrymen and the nation. The book provides an interesting insight to explain blatant problems that contribute to the lack of innovation, misconduct and all kinds of frenzy we see around today. The writing of the book is a lighthearted account of the protagonist, Neeraj, brought up in a conservative middle-class god-fearing family, who travels from Jaipur to Hyderabad to start his professional life as a geologist. The story depicts his bitter and heartening experiences, be it meeting an astrologer, making a railway reservation, going on a rail journey from Jaipur, joining up at his new office in Hyderabad or eventually completing a successful geological expedition in the wild. Neeraj's tryst with the various characters along his brief journey brings to light the mind set, personal traits, beliefs and culture of a vast cross section of the ordinary public that span age groups ranging from the child to the octogenarian. The book depicts several interplays of events that envelope the geologists in the office as well as in the field. One of the momentous events that overwhelms Neeraj is his meeting with the Moon and learning of the unbelievable history of human existence on earth. There are also hilarious episodes, including the one which describes the use of kerosene as the basic material for nuclear research.

Harnessing Light National Research Council 1998-09-25 Optical science and engineering affect almost every aspect of our lives. Millions of miles of optical fiber carry voice and data signals around the world. Lasers are used in surgery of the retina, kidneys, and heart. New high-efficiency light sources promise dramatic reductions in electricity consumption. Night-vision equipment and satellite surveillance are changing how wars are fought. Industry uses optical methods in everything from the production of computer chips to the construction of tunnels. Harnessing Light surveys this multitude of applications, as well as the status of the optics industry and of research and education in optics, and identifies actions that could enhance the field's contributions to society and facilitate its continued technical development.

Myopia Updates Takashi Tokoro 2013-06-29 Important questions about myopia are being posed by researchers across a broad spectrum of disciplines from psychology to molecular biology, from corneal surgery to retinal physiology, and from genetics to experimental optics. In bringing together information on pathology, epidemiology, experimentation, and treatment, this volume covers all aspects of myopia research and is an essential source for optometrists and ophthalmologists, as well as those interested in ocular growth or myopia.

Flammer Syndrome Olga Golubnitschaja 2019-07-23 Unmet healthcare needs of young populations and individuals in suboptimal health conditions are the key issue of currently observed epidemics of non-communicable disorders.

Moreover, an unprecedented decrease in the average age of onset of these disorders is recorded. The majority of non-communicable disorders carry a chronic character by progressing over a couple of years from a reversible suboptimal health condition to irreversible pathology with collateral complications. The time-frame between both conditions is the operational area for predictive diagnosis and identification of persons at risk by innovative screening programmes followed by the most cost-effective personalised treatment possible, namely primary prevention tailored to the person. The book propagates the paradigm change from delayed, costly but frequently ineffective medical services to the holistic approach by predictive, preventive and personalised medicine clearly demonstrating multifaceted benefits to the individual, healthcare sector and society as a whole. The book is focused on the needs of young people: teenagers, adolescents and young adults; regardless of the age, individuals in suboptimal health conditions, who are interested in remaining healthy by optimising their modifiable risk factors – both endogenous and exogenous ones; several patient cohorts demonstrating similar phenotype of Flammer syndrome. The book is based on the multi-professional expertise, scientific excellence and practical experiences of the world-acknowledged experts in Flammer syndrome, predictive diagnostics, targeted prevention and personalised medicine, amongst others. The topic of this book is particularly relevant to general practitioners, experts in non-communicable diseases, phenotyping, genotyping, multilevel diagnostics, targeted prevention, personalised medicine, as well as the readers interested in advancing their health literacy.

Multifocal Intraocular Lenses Jorge L. Alió 2019-08-30 This comprehensive 2nd edition will build on the highly successful first edition, providing an updated global perspective of the fundamentals of multifocal intraocular lenses. The varying outcomes, limitations, and the neuroadaptation process necessary for an adequate clinical success are thoroughly discussed, along with an overview of the different types of multifocal lenses, including the recently developed extended depth of focus lenses. *Multifocal Intraocular Lenses: The Art and the Practice*, 2nd edition opens with an introduction that will delve into current technological offerings for the correction of pseudophakic presbyopia, as well as the opportunity for refractive lens exchange in advanced presbyopic ages and the opportunity to use these lenses. The first section will include the historical background and clinical indications, while section two addresses the varying types and models of lenses currently available, including important clinical and technological highlights. Section three and four will follow, and provide an extended look at the Zeiss and Alcon Family Multifocal IOL's. Section five will delve into extended depth of field lenses, and will contain an introduction about the concept, different models and the evidence available about their outcomes. Section six concludes the book, closely examining accommodative intraocular lenses, and a full update will be provided on these lenses, the failures of the past and the hopes for the future. *Multifocal Intraocular Lenses: The Art and the Practice*, 2nd edition is a thorough, resource for the practical ophthalmologist and ophthalmic surgeon interested in learning more about intraocular lenses, identifying the best technologies and lenses for the benefit of their patients.

A Thesaurus of English Word Roots Horace Gerald Danner 2014-03-27 Horace G. Danner's *A Thesaurus of English Word Roots* is a compendium of the most-used word roots of the English language. As Timothy B. Noone notes in his foreword: "Dr. Danner's book allows you not only to build up your passive English vocabulary, resulting in word recognition knowledge, but also gives you the rudiments for developing your active English vocabulary, making it possible to infer the meaning of words with which you are not yet acquainted. Your knowledge can now expand and will do so exponentially as your awareness of the roots in English words and your corresponding ability to decode unfamiliar words grows apace. This is the beginning of a fine mental linguistic library: so enjoy!" In *A Thesaurus of English Word Roots*, all word roots are listed alphabetically, along with the Greek or Latin words from which they derive, together with the roots' original meanings. If the current meaning of an individual root differs from the original meaning, that is listed in a separate column. In the examples column, the words which contain the root are then listed, starting with their prefixes, for example, dysacusia, hyperacusia. These root-starting terms then are followed by terms where the root falls behind the word, e.g., acouesthesia and acoumeter. These words are followed by words where the root falls in the middle or the end, as in such terms as bradyacusia and odyacusis.. In this manner, *A Thesaurus of English Word Roots* places the word in as many word families as there are elements in the word. This work will interest linguists and philologists and anyone interested in the etymological aspects of English language.

Modern Techniques of Spectroscopy Dheeraj Kumar Singh 2021-05-15 The book highlights recent developments in the field of spectroscopy by providing the readers with an updated and high-level of overview. The focus of this book is on the introduction to concepts of modern spectroscopic techniques, recent technological innovations in this field, and current examples of applications to molecules and materials relevant for academia and industry. The book will be beneficial to researchers from various branches of science and technology, and is intended to point them to modern techniques, which might be useful for their specific problems. Spectroscopic techniques, that are discussed include, UV-Visible absorption spectroscopy, XPS, Raman spectroscopy, SERS, TERS, CARS, IR absorption spectroscopy, SFG, LIBS, Quantum cascade laser (QCL) spectroscopy, fluorescence spectroscopy, ellipsometry, cavity-enhanced absorption spectroscopy, such as cavity ring-down spectroscopy (CRDS) and evanescent wave-CRDS both in gas and condensed phases, time-resolved spectroscopy etc. Applications introduced in the different chapters demonstrates the usefulness of the spectroscopic techniques for the characterization of fundamental properties of molecules, e.g. in connection with environmental impact, bio-activity, or usefulness for pharmaceutical

drugs, and materials important e.g. for nano-science, nuclear chemistry, or bio-applications. The book presents how spectroscopic techniques can help to better understand substances, which have also great impact on questions of social and economic relevance (environment, alternative energy, etc.).

Perception and Discovery Norwood Russell Hanson 2018-05-29 Norwood Russell Hanson was one of the most important philosophers of science of the post-war period. Hanson brought Wittgensteinian ordinary language philosophy to bear on the concepts of science, and his treatments of observation, discovery, and the theory-ladenness of scientific facts remain central to the philosophy of science. Additionally, Hanson was one of philosophy's great personalities, and his sense of humor and charm come through fully in the pages of *Perception and Discovery*. *Perception and Discovery*, originally published in 1969, is Hanson's posthumous textbook in philosophy of science. The book focuses on the indispensable role philosophy plays in scientific thinking. *Perception and Discovery* features Hanson's most complete and mature account of theory-laden observation, a discussion of conceptual and logical boundaries, and a detailed treatment of the epistemological features of scientific research and scientific reasoning. This book is of interest to scholars of philosophy of science, particularly those concerned with Hanson's thought and the development of the discipline in the middle of the 20th century. However, even fifty years after Hanson's early death, *Perception and Discovery* still has a great deal to offer all readers interested in science.

Sixth International Visual Field Symposium A. Heijl 2011-10-02 Held at Santa Margherita Ligure, Italy, May 27-31, 1984

The Insects P. J. Gullan 2010-07-13 This established, popular textbook provides a stimulating and comprehensive introduction to the insects, the animals that represent over half of the planet's biological diversity. In this new fourth edition, the authors introduce the key features of insect structure, function, behavior, ecology and classification, placed within the latest ideas on insect evolution. Much of the book is organised around major biological themes - living on the ground, in water, on plants, in colonies, and as predators, parasites/parasitoids and prey. A strong evolutionary theme is maintained throughout. The ever-growing economic importance of insects is emphasized in new boxes on insect pests, and in chapters on medical and veterinary entomology, and pest management. Updated 'taxoboxes' provide concise information on all aspects of each of the 27 major groupings (orders) of insects. Key Features: All chapters thoroughly updated with the latest results from international studies. Accompanying website with downloadable illustrations and links to video clips. All chapters to include new text boxes of topical issues and studies. Major revision of systematic and taxonomy chapter. Still beautifully illustrated with more new illustrations from the artist, Karina McInnes. A companion resources site is available at <http://www.wiley.com/go/gullan/insects> target="_blank" www.wiley.com/go/gullan/insects/a. This site includes: Copies of the figures from the book for downloading, along with a PDF of the captions. Colour versions of key figures from the book. A list of useful web links for each chapter, selected by the author.

Pathology of Asbestos-Associated Diseases Victor L. Roggli 2004-03-04 Gives a detailed description of the pathologic abnormalities associated with exposure to asbestos fibres. A tremendous amount of information has been accumulated in the past decade regarding the numbers and types of fibers accumulating in the lung and their relation to various asbestos-related diseases and exposures. This information is summarized in this book, as well as changing legal strategies challenging workplace exposure.

Sustainable Agrochemistry Sílvia Vaz Jr. 2019-05-28 This book presents a broad range of technologies for sustainable agrochemistry, e.g. semiochemicals for pest management, nanotechnology for release of eco-friendly agrochemicals, and green chemistry principles for agriculture. It provides a concise introduction to sustainable agrochemistry for a professional audience, and highlights the main scientific and technological approaches that can be applied to modern agrochemistry. It also discusses various available technologies for reducing the negative impacts of agrochemicals on the environment and human health.

Teleophthalmology Kanagasingam Yogesan 2008-07-10 This book explains technical issues, digital imaging, and offers collective experiences of practitioners in different parts of the world practicing a wide range of teleophthalmology applications. It is the first book in ophthalmology covering this hot topic. The book encompasses access to specialist eye care for remote patients. It also covers ophthalmic disease screening, monitoring, diagnosing and management, and sharing of medical resources. The book is highly structured and concise. Ophthalmologists, optometrists, nurses, and primary care providers will find valuable and up-to-date information on how to successfully establish programs in this field.

A Companion to Research in Education Alan D. Reid 2013-11-11 This volume offers a unique commentary on the diverse ways that educational inquiry is conceived, designed and critiqued. An international team of scholars examines cross-cutting themes of how research in education is conceptualised, characterised, contextualised, legitimated and represented. Contributions include specially commissioned essays, critical commentaries, vignettes, dialogues and cases. Each section discusses the significance of a complex terrain of ideas and critiques that can inform thinking and practice in educational research. The result is a thorough and accessible volume that offers fresh insights into the perspectives and challenges that shape diverse genres of research in education. ?

Pathologic Myopia Richard F. Spaide 2013-12-04 Pathological Myopia is a major cause of severe vision loss worldwide. The mechanisms for vision loss include cataract, glaucoma, retinal detachment, and above all,

degeneration of the macula within the posterior staphyloma. Pathological 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. Complete with high-quality color images, 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.

Review of the national ambient air quality standards for particulate matter policy assessment of scientific and technical information. 2005

Controversies in the Management of Keratoconus Adel Barbara 2018-12-11 This book presents new technologies which are available now for the rehabilitation of visual acuity in patients suffering from keratoconus and for arresting the progression of this frustrating disease. All these current treatment options in differing combinations aim to improve the quality of life of the patients and although successful, they are causing confusion for the ophthalmologists; what procedure to do and when? How to perform? Which combination of treatments to choose? Controversies in the Management of Keratoconus provides the widely used treatment options for keratoconus including collagen corneal cross-linking (CXL) covering all the available techniques, intrastromal corneal ring segments (ICRS), phakic intra-ocular lenses (IOLs), photorefractive keratectomy (PRK) combined or not with CXL penetrating keratoplasty (PK) and deep anterior lamellar keratoplasty (DALK). Each treatment is addressed by more than one author with different points of view in order to present the various approaches, the logic behind them and the most relevant clinical data available. A chapter by the editor tries to put some light on how to navigate among these controversies. This book will be of interest to trainees as well as the specialized ophthalmologists.

Clinical Manual of Contact Lenses Edward S. Bennett 2013-08-20 Designed to be used as a quick reference, this fourth edition of the Clinical Manual of Contact Lenses allows readers to easily find the topic and information they need without having to search through an entire chapter to find it. Rigid gas permeable lens design and fitting, soft lens problem-solving, astigmatic management, and bifocal correction are just a few of the subjects covered in this manual. Each chapter includes sample cases to reinforce and demonstrate the practical nature of the topic, with nomograms and proficiency checklists summarizing and emphasizing the important points. With this guide, students and practitioners will have a dependable resource to help fit, evaluate, and troubleshoot any contact lenses, especially specialty designs for years to come.

Entertainment for Education. Digital Techniques and Systems Xiaopeng Zhang 2010-08-12 With the technical advancement of digital media and the medium of communication in recent years, there is a widespread interest in digital entertainment. An emerging technical research area edutainment, or educational entertainment, has been accepted as education using digital entertainment. Edutainment has been recognized as an effective way of learning using modern digital media tools, like computers, games, mobile phones, televisions, or other virtual reality applications, which emphasizes the use of entertainment with application to the education domain. The Edutainment conference series was established in 2006 and subsequently organized as a special event for researchers working in this new interest area of e-learning and digital entertainment. The main purpose of Edutainment conferences is to facilitate the discussion, presentation, and information exchange of the scientific and technological development in the new community. The Edutainment conference series becomes a valuable opportunity for researchers, engineers, and graduate students to communicate at these international annual events. The conference series includes plenary invited talks, workshops, tutorials, paper presentation tracks, and panel discussions. The Edutainment conference series was initiated in Hangzhou, China in 2006. Following the success of the first event, the second (Edutainment 2007 in Hong Kong, China), third (Edutainment 2008 in Nanjing, China), and fourth editions (Edutainment 2009 in Banff, Canada) were organized. Edutainment 2010 was held during August 16–18, 2010 in Changchun, China. Two workshops were jointly organized together with Edutainment 2010.

El Filibusterismo José Rizal 1968 José Rizal has a good claim to being the first Asian nationalist. An extremely talented Malay born a hundred years ago in a small town near Manila, educated partly in the Philippines and partly in Europe, Rizal inspired the Filipinos by his writing and example to make the first nationalist revolution in Asia in 1896. Today the Philippines revere Rizal as their national hero, and they regard his two books, The Lost Eden (Noli Me Tangere) and The Subversive (El Filibusterismo) as the gospel of their nationalism. The Subversive, first published in 1891, is strikingly timely today. New nations emerging in Africa and Asia are once again in conflict with their former colonial masters, as were the Filipinos with their Spanish rulers in Rizal's day. The Subversive poses questions about colonialism which are still being asked today: does a "civilizing mission" justify subjection of a people? Should a colony aim at assimilation or independence? If independence, should it be by peaceful evolution or force of arms? Despite the seriousness of its theme, however, The Subversive is more than a political novel. It is a romantic, witty, satirical portrait of Spanish colonial rule in the Philippines at the end of the nineteenth century, written in the tradition of the great adventure romances. The translation by Leon Ma. Guerrero, Philippine ambassador to the Court of St. James, conveys the immediacy of the original, and makes this important work available to a new generation of readers. His translation of The Lost Eden is also available in the Norton Library.

Multifunctional Barriers for Flexible Structure Sophie Duquesne 2007-08-29 This is the first complete overview of the present state of the art of flexible barrier materials such as textile, paper and leather, including methods for

barrier evaluation. It will be of interest to readers in industries, consumers, and members of the scientific community. The scope of the field is clearly delineated here for the first time, and it deals with a number of specific topics such as barrier to fire and antibacterial properties.