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3D Laser Scanning for Heritage Advice and Guidance on the Use of Laser Scanning in Archaeology and Architecture The first edition of 3D Laser Scanning for Heritage was published in 2007 and originated from the Heritage3D project that in 2006 considered the development of professional guidance for laser scanning in archaeology and architecture. Publication of the second edition in 2011 continued the aims of the original document in providing updated guidance on the use of three-dimensional (3D) laser scanning across the heritage sector. By reflecting on the technological advances made since 2011, such as the speed, resolution, mobility and portability of modern laser scanning systems and their integration with other sensor solutions, the guidance presented in this third edition should assist archaeologists, conservators and other cultural heritage professionals unfamiliar with the approach in making the best possible use of this now highly developed technique.

Oculoplastic Surgery A Practical Guide to Common Disorders *Springer Nature* Oculoplastic Surgery: A Practical Guide to Common Disorders provides guidance on various clinical approaches for treating oculoplastic disorders as well as ocular trauma. In addition, highly illustrated and informative chapters examine the interaction between oculoplasty, ophthalmic sub-specialties (pediatrics, cataract, refractive, neuro, glaucoma) and other clinical areas including ENT, maxillofacial, dermatology, general plastic surgery and psychiatry. Consultants, surgeons, trainees and health professionals from all the specialties and sub-specialties related to oculoplasty, will find this book to be an indispensable resource for further developing skills and knowledge in the field of oculoplastic surgery.

Peter Read Miller on Sports Photography A Sports Illustrated photographer's tips, tricks, and tales on shooting football, the Olympics, and portraits of athletes *New Riders* In Peter Read Miller on Sports Photography, the 30-year Sports Illustrated veteran photographer takes you into the action of many of his most iconic shots, relating the stories behind the photos of some of the world's greatest athletic events, including the Olympics and the Super Bowl. Discussing the circumstances surrounding particular shots, Peter shares observations of the athletes themselves, and provides tips and techniques for sports photographers of all levels looking to capture great photos of football, track and field, gymnastics, and swimming, as well as dynamic portraits of athletes. Unlike photo collections by other greats of sports photography, this book seamlessly interweaves the images and the fascinating stories behind them with photographic instruction, while giving you an inside look at what it's like to work at the nation's leading sports publication. Beautifully illustrated with images from the Olympics, football, and portrait sessions with professional athletes, this book offers a rich and inspiring experience for sports photographers, sports fans, and Sports Illustrated readers.

The Glaucoma Book A Practical, Evidence-Based Approach to Patient Care *Springer Science & Business Media* Complete evidence-based medical and surgical management of glaucoma for both the general ophthalmologist in practice and residents The only book that covers the new generation of glaucoma procedures including trabectome, trabecular bypass and canaloplasty, by the experts who developed them Includes the latest laser treatments for glaucoma including micro diode and titanium sapphire trabeculoplasty as well as laser from an external approach The most comprehensive coverage of the optic nerve and the importance of nerve fiber layer hemorrhage Provides an integrated approach to neovascular glaucoma merging treatment to the retina, with the use of new anti-VEGF drugs, tubes, and shunts to achieve the best outcome Integrates clinical science with basic science to outline the next steps in glaucoma therapy

Fundus Autofluorescence *Lippincott Williams & Wilkins* Featuring over 250 illustrations, this detailed full-color textbook provides up-to-date information on the use of fundus autofluorescence imaging in evaluation of retinal disease. Chapters describe the techniques available to image and quantify fundus autofluorescence and the autofluorescence patterns observed in the healthy eye and in various retinal diseases. Emphasis is on the value of fundus autofluorescence as a diagnostic and prognostic tool and its clinical utility in the context of other imaging techniques, such as fluorescein and indocyanine green angiography and optical coherence tomography. Each chapter also discusses the value of fundus autofluorescence in understanding the pathogenesis of the condition, and provides a comprehensive update on all aspects of the condition. A companion Website will offer the fully searchable text and an image bank.

The Contact Lens Manual A Practical Fitting Guide The Contact Lens Manual has become established as one of the world's leading practical textbooks in the field of contact lenses for both students and experienced practitioners alike.

OCT Atlas *Springer* OCT provided a great advantage over other diagnostic modalities, as it could noninvasively provide tomographic images of the retina of a living eye. As a result, a number of new findings in retinal diseases were made using the time-domain OCT. OCT has now become an essential medical equipment OCT has now become an essential medical equipment in ophthalmic care and quality textbooks describing the functionality of OCT are very important in the education of young ophthalmologists and eye care personnel. In this book are chosen high quality OCT images of rather common diseases as well as images of several rare diseases.

The Flip Side of Jurassic Park *Laurence King Publishing* What happens when you hide from dinos in an outhouse? This comic spin on a classic film scene, dreamed up by Little White Lies magazine, will ensure you never look at prehistoric predators in quite the same way.

Artificial Intelligence for Information Management: A Healthcare Perspective *Springer Nature* This book discusses the advancements in artificial intelligent techniques used in the well-being of human healthcare. It details the techniques used in collection, storage and analysis of data and their usage in different healthcare solutions. It also discusses the techniques of predictive analysis in early diagnosis of critical diseases. The edited book is divided into four parts – part A discusses introduction to artificial intelligence and machine learning in healthcare; part B highlights different analytical techniques used in healthcare; part C provides various security and privacy mechanisms used in healthcare; and finally, part D exemplifies different tools used in visualization and data analytics.

Current Advances in Ophthalmic Technology *Springer Nature* This book provides an overview of the latest technological advances in various ophthalmology subspecialties: from the latest glaucoma shunt devices to mobile adaptors for posterior segment evaluation, this book has it all. It gives readers a valuable head start for adopting the uber-new and cutting-edge products now available on the market. Being familiar with these new products and technologies will help both new and established ophthalmologists make effective and efficient choices, while also helping their practices stand out from the crowd. Perhaps no other branch of medicine is as technology-oriented as ophthalmology: be it lasers, fiber optics, robotics, stem cells or nanoparticles, every cutting-edge step that “Research and Development” takes is rapidly integrated into everyday eye practice. As part of the series “Current Practices in Ophthalmology”, this volume is intended for residents, fellows-in-training, generalist ophthalmologists, specialists and vision science researchers alike.

Fabrication Methods for Precision Optics *Wiley-Interscience* Based on an unpublished revision of the standard reference in the German optics industry. Designed as a source of facts, data and definitions, it reflects state-of-the-art technology and current practices in the United States and abroad. Practical in nature, it presents optical engineers with comprehensive coverage of material, tool and design methods and testing of the final product. Easily accessible with tables, graphs and equations, it will help professionals quickly and accurately find the most suitable solutions to their optical challenges.

Engineering Surveying *CRC Press* Engineering surveying involves determining the position of natural and man-made features on or beneath the Earth’s surface and utilizing these features in the planning, design and construction of works. It is a critical part of any engineering project. Without an accurate understanding of the size, shape and nature of the site the project risks expensive and time-consuming errors or even catastrophic failure. This fully updated sixth edition of Engineering Surveying covers all the basic principles and practice of the fundamentals such as vertical control, distance, angles and position right through to the most modern technologies. It includes: * An introduction to geodesy to facilitate greater understanding of satellite systems * A fully updated chapter on GPS, GLONASS and GALILEO for satellite positioning in surveying * All new chapter on the important subject of rigorous estimation of control coordinates * Detailed material on mass data methods of photogrammetry and laser scanning and the role of inertial technology in them With many worked examples and illustrations of tools and techniques, it suits students and professionals alike involved in surveying, civil, structural and mining engineering, and related areas such as geography and mapping.

Artificial Intelligence and Machine Learning for Digital Pathology State-of-the-Art and Future Challenges *Springer Nature* Data driven Artificial Intelligence (AI) and Machine Learning (ML) in digital pathology, radiology, and dermatology is very promising. In specific cases, for example, Deep Learning (DL), even exceeding human performance. However, in the context of medicine it is important for a human expert to verify the outcome. Consequently, there is a need for transparency and re-traceability of state-of-the-art solutions to make them usable for ethical responsible medical decision support. Moreover, big data is required for training, covering a wide spectrum of a variety of human diseases in different organ systems. These data sets must meet top-quality and regulatory criteria and must be well annotated for ML at patient-, sample-, and image-level. Here biobanks play a central and future role in providing large collections of high-quality, well-annotated samples and data. The main challenges are finding biobanks containing “fit-for-purpose” samples, providing quality related meta-data, gaining access to standardized medical data and annotations, and mass scanning of whole slides including efficient data management solutions.

Guide to Biometric Reference Systems and Performance Evaluation *Springer Science & Business Media* Biometrics has moved from using fingerprints to using many methods of assessing human physical and behavioral traits. This guide introduces a new performance evaluation framework designed to offer full coverage of performance evaluation of biometric systems.

A Comprehensive Guide to Solar Energy Systems With Special Focus on Photovoltaic Systems *Academic Press* A Comprehensive Guide to Solar Energy Systems: With Special Focus on Photovoltaic Systems, the most advanced and research focused text on all aspects of solar energy engineering, is a must have edition on the present state of solar technology, integration and worldwide distribution. In addition, the book provides a high-level assessment of the growth trends in photovoltaics and how investment, planning and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies that look at how recent research developments can be applied. Written by some of the most forward-thinking professionals, this book is an invaluable reference for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers measurable data written by a world expert in the field on the latest developments in this fast moving and vital subject

Optical Coherence Tomography Technology and Applications *Springer Science & Business Media* Optical coherence tomography (OCT) is the optical analog of ultrasound imaging and is emerging as a powerful imaging technique that enables non-invasive, in vivo, high resolution, cross-sectional imaging in biological tissue. This book introduces OCT technology and applications not only from an optical and technological viewpoint, but also from biomedical and clinical perspectives. The chapters are written by leading research groups, in a style comprehensible to a broad audience.

Supply Chain Management for Sustainable Food Networks *John Wiley & Sons* An interdisciplinary framework for managing sustainable agrifood supply chains Supply Chain Management for Sustainable Food Networks provides an up-to-date and interdisciplinary framework for designing and operating sustainable supply chains for agri-food products. Focus is given to decision-making procedures and methodologies enabling policy-makers, managers and practitioners to design and manage effectively sustainable agrifood supply chain networks. Authored by high profile researchers with global expertise in designing and operating sustainable supply chains in the agri-food industry, this book: Features the entire hierarchical decision-making process for managing sustainable agrifood supply chains. Covers knowledge-based farming, management of agricultural wastes, sustainability, green supply chain network design, safety, security and traceability, IT in agrifood supply chains, carbon footprint management, quality management, risk management and policy- making. Explores green supply chain management, sustainable knowledge-based farming, corporate social responsibility, environmental management and emerging trends in agri-food retail supply chain operations. Examines sustainable practices that are unique for agriculture as well as practices that already have been implemented in other industrial sectors such as green logistics and Corporate Social Responsibility (CSR). Supply Chain Management for Sustainable Food Networks provides a useful resource for researchers, practitioners, policy-makers, regulators and C-level executives that deal with strategic decision-making. Post-graduate students in the field of agriculture sciences, engineering, operations management, logistics and supply chain management will also benefit from this book.

Geological Methods in Mineral Exploration and Mining *Springer Science & Business Media* This book is written as a practical field manual to effective. Each geologist has to develop his/her own techniques and will ultimately be

judged on ration. It is also hoped that it will serve as a text results, not the process by which these results and reference for students in Applied Geology were reached. In mineral exploration, the only courses of universities and colleges. The book 'right' way of doing anything is the way that aims to outline some of the practical skills that locates ore in the quickest and most cost-effective turn the graduate geologist into an explo manner. It is preferable, however, for an individ rationist:. It is intended as a practical 'how to' ual to develop his/her own method of operation book, rather than as a text on geological or ore after having tried, and become aware of, those deposit theory. procedures which experience has shown to work An explorationist is a professional who search well and which are generally accepted in indus try as good exploration practice. es for ore bodies in a scientific and structured way. Although an awkward and artificial term, The chapters of the book approximately fol this is the only available word to describe the low the steps which a typical exploration pro totality of the skills which are needed to locate gramme would go through. In Chapter 1, the and define economic mineralization.

Techno-Societal 2020 Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 1 *Springer Nature* This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Practical Least Squares and Statistics for Surveyors Glaucoma Science and Practice *Thieme* Rapid advances in identifying the epidemiology, physiology, and genetics of glaucoma have led to dramatic developments in diagnostic and therapeutic techniques. This new text offers you concise coverage of every major clinical breakthrough, as well as the basic science needed to thoroughly understand all manifestations of the disease. It is written by a who's who of international experts, who share their tips and techniques in every information-filled chapter. The book begins with important new details on etiology, genetics, and epidemiology, and then covers intraocular pressure, the optic nerve, different types of glaucoma, and various treatment strategies. More than 270 color illustrations augment the text and clarify all concepts. Benefit from these special features: Key discussions of the pathophysiology of the disease, as well as the pharmacologic mechanisms of different drugs and their efficacy Valuable diagnostic decision diagrams that lead to quick and accurate decisions Helpful pearls, pitfalls, and special considerations that offer guidance in specific situations and show how to avoid problems and complications Nearly 300 superb, full-color illustrations that depict the distinguishing features of each entity Inclusion of such cutting-edge material as neuroprotection, and several other new topics Whether you are an experienced practitioner needing a quick review or a resident learning a topic for the first time, Glaucoma: Science and Practice is packed with essential clinical and scientific information. Here is the timely, current, and practical resource you need to understand the complexities of glaucoma and provide optimal patient care.

Laser Applications in Medicine and Biology Volume 4 *Springer Science & Business Media* The diversity of the chapters presented in this volume illustrates not only the many applications of lasers, but also the fact that, in many cases, these are not new uses of lasers, but rather improvements of laser techniques already widely accepted in both research and clinical situations. Biological reactions to some special aspects of laser exposure continue to show new effects, which have implications for the ever-present topic of laser safety. Such biological reactions are included in fields of research which depend on properties of electromagnetic radiation exposure only possible with lasers, for example, the short pulses necessary for the temperature-jump experiments reviewed by Reiss: Speciality lasers, such as the transverse excitation atmospheric (TEA) or excimer lasers, add new wavelengths and pulse domains to those already available for biological application. A description of these new types of lasers by Osgood is included to indicate new possibilities for future use and to avoid limiting our coverage to well-developed present-day applications. Hillenkamp and Kaufmann describe a microprobe mass spectrograph for analysis of the minute amounts of material evaporated by a laser pulse. The analytical possibilities of this instrument are far-reaching, and some of the various results are described to illustrate the power of their method, as well as to show the types of problems that are suitable for it. The initial steps in photosynthesis have become the subject of intensive investigation.

Advances in Remote Sensing and Geo Informatics Applications Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018 *Springer* This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book compiles a wide range of topics addressing various issues by experienced researchers mainly from research institutes in the Mediterranean, MENA region, North America and Asia. Remote sensing observations can close gaps in information scarcity by complementing ground-based sparse data. Spatial, spectral, temporal and radiometric characteristics of satellites sensors are most suitable for features identification. The local to global nature and broad spatial scale of remote sensing with the wide range of spectral coverage are essential characteristics, which make satellites an ideal platform for mapping, observation, monitoring, assessing and providing necessary mitigation measures and control for different related Earth's systems processes. Main topics in this book include: Geo-informatics Applications, Land Use / Land Cover Mapping and Change Detection, Emerging Remote Sensing Applications, Rock Formations / Soil Lithology Mapping, Vegetation Mapping Impact and Assessment, Natural Hazards Mapping and Assessment, Ground Water Mapping and Assessment, Coastal Management of Marine Environment and Atmospheric Sensing.

Techno-Societal 2020 Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 2 *Springer Nature* This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand,

technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Geospatial Technology for Earth Observation *Springer Science & Business Media* Earth Observation interacts with space, remote sensing, communication, and information technologies, and plays an increasingly significant role in Earth related scientific studies, resource management, homeland security, topographic mapping, and development of a healthy, sustainable environment and community. *Geospatial Technology for Earth Observation* provides an in-depth and broad collection of recent progress in Earth observation. Contributed by leading experts in this field, the book covers satellite, airborne and ground remote sensing systems and system integration, sensor orientation, remote sensing physics, image classification and analysis, information extraction, geospatial service, and various application topics, including cadastral mapping, land use change evaluation, water environment monitoring, flood mapping, and decision making support. *Geospatial Technology for Earth Observation* serves as a valuable training source for researchers, developers, and practitioners in geospatial science and technology industry. It is also suitable as a reference book for upper level college students and graduate students in geospatial technology, geosciences, resource management, and informatics.

Nanocomposites with Unique Properties and Applications in Medicine and Industry *BoD - Books on Demand* This book contains chapters on nanocomposites for engineering hard materials for high performance aircraft, rocket and automobile use, using laser pulses to form metal coatings on glass and quartz, and also tungsten carbide-cobalt nanoparticles using high voltage discharges. A major section of this book is largely devoted to chapters outlining and applying analytic methods needed for studies of nanocomposites. As such, this book will serve as good resource for such analytic methods.

Electromagnetic Distance Measurement *University of Toronto Press* Electromagnetic distance measurement, by using light and microwaves for direct linear measurements and thus circumventing the need for traditional methods of triangulation, may well introduce a new era in surveying. This book brings together the work of forty-eight geodesists from twenty-five countries. They discuss various new EDM instruments—among them the Tellurometer, Geodimeter, and air- and satellite-borne systems—and investigate the complex sources of error. The book is therefore a unique and comprehensive source on the subject. UNESCO and R.I.C.S. have assisted financially in its production.

Femtosecond Laser: Techniques and Technology *JAYPEE BROTHERS MEDICAL PUBLISHERS PVT. LTD.* *Femtosecond Laser: Techniques and Technology*, the first of its kind in world ophthalmology provides complete insight of this technology in various ocular indications. Latest innovation Femtosecond Laser offers new possibilities in the field of minimally invasive corneal surgery. It has proved its versatility in Lamellar keratoplasty, customized trephination in penetrating keratoplasty, tunnel creation for intracorneal ring segments, astigmatic keratotomy for keratoprotheses, non-invasive transscleral glaucoma surgery, retinal imaging presbyopic surgery and cataract surgery. The international experts of this field from USA, Europe and Asia have covered the present and futuristic uses of this technology in ophthalmology in a step-by-step and lucid manner. Panoramic view of biophysics of femtosecond laser, procedures and future technology for the different diseases of ophthalmology with more than 200 coloured illustrations and images. The possible uses of Femtosecond Laser in anterior and posterior segment indications of ophthalmology have been explained for the benefits of ophthalmologists worldwide. This book provides real-world examples of various surgical procedure using Femtosecond Laser surgeries. The book shall serve as a relatively concise yet complete resource of Femtosecond Laser for the academic and management in the new healthcare era in ophthalmology and cataract surgeons.

Ocular Blood Flow *Springer Science & Business Media* Adequate blood supply to the eye is an important prerequisite for normal visual function. Over the past 40 years our knowledge of ocular blood flow regulation has improved significantly. This reader-friendly textbook provides a comprehensive overview of the current knowledge of ocular blood flow. Lavishly illustrated, it evaluates the wide array of methods that have been used to measure ocular blood flow. Furthermore, it not only offers the reader an evidence-based summary of the physiological and pharmacological properties of ocular blood flow regulation, but also demonstrates the ocular blood flow abnormalities in different vascular diseases. This book will enhance the understanding of all who are interested in learning more about ocular blood flow in health and disease.

Lens Epithelium and Posterior Capsular Opacification *Springer* This book is the first to summarize the current knowledge of the cell biology of lens epithelial cells in relation to and in the development of posterior capsular opacification (PCO). PCO remains the most common long-term complication of modern cataract surgery, occurring months or years after cataract surgery, unlike most other complications that tend to arise during or soon after the procedure. Opacification of the posterior capsule appears to be linked to lens epithelial cells that are left behind in the eye during cataract removal. These cells proliferate, migrate across the posterior lens capsule, and undergo changes that result in fibrous or pearl-type opacities in the capsule. The first section of the text explains the molecular mechanism and biology of lens epithelial cells that lead to the incidence of PCO. In the second part, in addition to a description of the mechanism and pathological condition of PCO, surgical methods and devices for preventing PCO are discussed in detail. *Lens Epithelium and Capsular Opacification* will benefit not only young clinical residents and junior researchers, but also established faculty in the clinical or basic academic field.

Mobilizing the Past for a Digital Future The Potential of Digital Archaeology *Digital Press at the University of North Dakota* *Mobilizing the Past* is a collection of 20 articles that explore the use and impact of mobile digital technology in archaeological field practice. The detailed case studies present in this volume range from drones in the Andes to iPads at Pompeii, digital workflows in the American Southwest, and examples of how bespoke, DIY, and commercial software provide solutions and craft novel challenges for field archaeologists. The range of projects and contexts ensures that *Mobilizing the Past for a Digital Future* is far more than a state-of-the-field manual or technical handbook. Instead, the contributors embrace the growing spirit of critique present in digital archaeology. This critical edge, backed by real projects, systems, and experiences, gives the book lasting value as both a glimpse into present practices as well as the anxieties and enthusiasm associated with the most recent generation of mobile digital tools. This book emerged from a workshop funded by the National Endowment for the Humanities held in 2015 at Wentworth Institute of Technology in Boston. The workshop brought together over 20 leading practitioners of digital archaeology in the U.S. for a weekend of conversation. The papers in this volume reflect the discussions at this workshop with significant additional content. Starting with an expansive introduction and concluding with a series of reflective papers, this volume illustrates how tablets, connectivity, sophisticated software, and powerful computers have transformed field practices and offer potential for a radically transformed discipline.

Atom Probe Tomography Put Theory Into Practice *Academic Press* *Atom Probe Tomography* is aimed at beginners and researchers interested in expanding their expertise in this area. It provides the theoretical background and practical information necessary to investigate how materials work using atom probe microscopy

techniques, and includes detailed explanations of the fundamentals, the instrumentation, contemporary specimen preparation techniques, and experimental details, as well as an overview of the results that can be obtained. The book emphasizes processes for assessing data quality and the proper implementation of advanced data mining algorithms. For those more experienced in the technique, this book will serve as a single comprehensive source of indispensable reference information, tables, and techniques. Both beginner and expert will value the way the book is set out in the context of materials science and engineering. In addition, its references to key research outcomes based upon the training program held at the University of Rouen—one of the leading scientific research centers exploring the various aspects of the instrument—will further enhance understanding and the learning process. Provides an introduction to the capabilities and limitations of atom probe tomography when analyzing materials Written for both experienced researchers and new users Includes exercises, along with corrections, for users to practice the techniques discussed Contains coverage of more advanced and less widespread techniques, such as correlative APT and STEM microscopy

Ophthalmology for the Veterinary Practitioner *Schlütersche* The standard work for ophthalmology in veterinary practise – now completely revised and extended. In its modern layout, the new edition continues a tried and tested concept. The present day developments in ophthalmological diagnostics and therapy are supplemented comprehensively throughout the book. In ophthalmology, the paramount maxim is "Learning by doing". This book provides a concrete guide to diagnostics and therapy of all important eye diseases in small animals especially for those general veterinary practitioners without any specific experience in ophthalmology and to students. It enables the determination of a diagnosis even without specialised instruments, while at the same time it gives answers to the important questions: When should an eye patient be referred to a specialist? Which preparations are necessary for doing this? Specific veterinary features in pet animals, horses, birds and farm animals are compared. A special chapter dedicated to ophthalmological emergencies enables quick and assured actions to be undertaken in emergency situations. The structure of the book follows the steps of a clinical examination making it particularly user-friendly. First-class new colour photographs and instructive drawings illustrate symptoms, diagnosis and treatment methods.

Water Societies and Technologies from the Past and Present *UCL Press* Today our societies face great challenges with water, in terms of both quantity and quality, but many of these challenges have already existed in the past. Focusing on Asia, *Water Societies and Technologies from the Past and Present* seeks to highlight the issues that emerge or re-emerge across different societies and periods, and asks what they can tell us about water sustainability. Incorporating cutting-edge research and pioneering field surveys on past and present water management practices, the interdisciplinary contributors together identify how societies managed water resource challenges and utilised water in ways that allowed them to evolve, persist, or drastically alter their environment. The case studies, from different periods, ancient and modern, and from different regions, including Egypt, Sri Lanka, Cambodia, Southwest United States, the Indus Basin, the Yangtze River, the Mesopotamian floodplain, the early Islamic city of Sultan Kala in Turkmenistan, and ancient Korea, offer crucial empirical data to readers interested in comparing the dynamics of water management practices across time and space, and to those who wish to understand water-related issues through conceptual and quantitative models of water use. The case studies also challenge classical theories on water management and social evolution, examine and establish the deep historical roots and ecological foundations of water sustainability issues, and contribute new grounds for innovations in sustainable urban planning and ecological resilience.

Linear Algebra, Geodesy, and GPS *SIAM* Discusses algorithms generally expressed in MATLAB for geodesy and global positioning. Three parts cover basic linear algebra, the application to the (linear and also nonlinear) science of measurement, and the GPS system and its applications. A popular article from *SIAM News* (June 1997) *The Mathematics of GPS* is included as an introduction. Annot

Glaucoma Surgery *Karger Medical and Scientific Publishers* The first edition of this volume, published in 2012, has become an indispensable reference for clinicians, a fact that inspired the making of this 2nd edition. The book starts with a discussion of current achievements and limitations of the medical therapy of glaucoma. The focus is then placed on conventional glaucoma procedures such as trabeculectomy, deep sclerectomy, and glaucoma drainage device surgery. A chapter is dedicated to the postoperative management of filtering procedures. Further chapters review the role of the ocular surface and the issue of modulation of the scarring processes in glaucoma surgery. The second section covers some promising new devices and techniques. The final part addresses the surgical approaches to some specific clinical challenges: angle-closure glaucoma, concomitant cataract and glaucoma, pediatric glaucoma, and refractory glaucomas. This volume provides residents and general ophthalmologists with valuable new insights into the fascinating and sometimes complex aspects of glaucoma surgery. It will also assist glaucoma specialists when they review and validate therapeutic approaches with their patients.

Physics and Applications of Secondary Electron Emission *Pergamon Science Series: Electronics and Waves—a Series of Monographs* *Elsevier* *Physics and Applications of Secondary Electron Emission* provides a survey of the physics and applications of secondary electron emission. It is part of a series of monographs that aim to report on research carried out in electronics and applied physics. The monographs are written by specialists in their own subjects. Wherever it is practical the monographs will be kept short in length to enable all those interested in electronics to find the essentials necessary for their work in a condensed and concentrated form. The book begins with a discussion of secondary electrons. Separate chapters cover methods for measuring secondary electron emission; numerical results on the secondary electron emission yield of both metals and metal compounds; the influence of externally adsorbed foreign atoms and ions on secondary electron emission; and the mechanism of secondary electron emission. The final three chapters deal with the application side. These include the applications of electron multiplication; the elimination of disturbing effects due to secondary electrons; and "storage" devices in which information on electrical charges is written on an insulating surface, often by making use of secondary electron emission.

China Satellite Navigation Conference (CSNC) 2013 Proceedings Precise Orbit Determination & Positioning • Atomic Clock Technique & Time-Frequency System • Integrated Navigation & New Methods *Springer Science & Business Media* *China Satellite Navigation Conference (CSNC) 2013 Proceedings* presents selected research papers from CSNC2013, held on 15-17 May in Wuhan, China. The theme of CSNC2013 is: BeiDou Application: Opportunities and Challenges. These papers discuss the technologies and applications of the Global Navigation Satellite System (GNSS), and the latest progress made in the China BeiDou system especially. They are divided into 9 topics to match the corresponding sessions in CSNC2013, which broadly covered key topics in GNSS. Readers can learn about the BeiDou system and keep abreast of the latest advances in GNSS techniques and applications. SUN Jiadong is the Chief Designer of the Compass/BeiDou system, and the Academician of Chinese Academy of Sciences (CAS); JIAO Wenhai is a researcher at China Satellite Navigation Office; WU Haitao is a professor at Navigation Headquarters, CAS; SHI Chuang is a

professor at Wuhan University. **Lasik** ""LASIK"" is a timely and authoritative source for refractive, corneal, and cataract surgeons; ophthalmologists; optometrists; ophthalmic surgeons; and upper-level undergraduate, graduate, and medical students in these disciplines. This guide emphasizes the latest tools and step-by-step procedures to increase the safety, predictability, and long-term stability of LASIK procedures. **The Merrell Locality (24BE1659) & Centennial Valley, Southwest Montana Pleistocene Geology, Paleontology & Prehistoric Archaeology** *Blm Montana State Office*