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KEY=TECHNIQUES - COOPER RILEY

Master Techniques in Blepharoplasty and Periorbital Rejuvenation Springer Science & Business Media *Master Techniques in Blepharoplasty and Eyelid Reconstruction* is a comprehensive, multi-specialty textbook and surgical atlas on blepharoplasty and eyelid reconstruction, presenting multiple competing and complementary techniques by the leading experts in the field of plastic surgery, facial plastic surgery, and oculoplastic surgery. Only the most pioneering and time-tested surgical procedures are presented in step-by-step, illustrative detail. All areas of eyelid surgery are covered in a balanced and systematic approach. An accompanying on-line surgical atlas shows digitally videotaped procedures by the leading authors, extremely useful to any surgeon interested in blepharoplasty. **Master Techniques in Blepharoplasty and Eyelid Reconstruction** is the definitive textbook and atlas for any surgeon who interested in this topic. **Principles of Asymmetric Synthesis** Elsevier The world is chiral. Most of the molecules in it are chiral, and asymmetric synthesis is an important means by which enantiopure chiral molecules may be obtained for study and sale. Using examples from the literature of asymmetric synthesis (more than 1300 references), the aim of this book is to present a detailed analysis of the factors that govern stereoselectivity in organic reactions. It is important to note that the references were each individually checked by the authors to verify relevance to the topics under discussion. The study of stereoselectivity has evolved from issues of diastereoselectivity, through auxiliary-based methods for the synthesis of enantiomerically pure compounds (diastereoselectivity followed by separation and auxiliary cleavage), to asymmetric catalysis. In the latter instance, enantiomers (not diastereomers) are the products, and highly selective reactions and modern purification techniques allow preparation - in a single step - of chiral substances in 99% ee for many reaction types. After an explanation of the basic physical-organic principles of stereoselectivity, the authors provide a detailed, annotated glossary of stereochemical terms. A chapter on "Analytical Methods" provides a critical overview of the most common methods for analysis of stereoisomers. The authors then follow the 'tried-and-true' format of grouping the material by reaction type. Thus, there are four chapters on carbon-carbon bond forming reactions (enolate alkylations, organometal additions to carbonyls, aldol and Michael reactions, and cycloadditions and rearrangements), one chapter on reductions and hydroborations (carbon-hydrogen bond forming reactions), and one on oxidations (carbon-oxygen and carbon-nitrogen bond forming reactions). Leading references are provided to natural product synthesis that have been accomplished using a given reaction as a key step. In addition to tables of examples that show high selectivity, a transition state analysis is presented to explain - to the current level of understanding - the stereoselectivity of each reaction. In one case (Cram's rule) the evolution of the current theory is detailed from its first tentative (1952) postulate to the current Felkin-Anh-Heathcock formalism. For other reactions, only the currently accepted rationale is presented. Examination of these rationales also exposes the weaknesses of current theories, in that they cannot always explain the experimental observations. These shortcomings provide a challenge for future mechanistic investigations. Authoritative glossary to aid understanding of stereochemical terminology Explanations of the key factors influencing stereoselectivity with numerous examples, organized by reaction type A handy reference guide to the literature of asymmetric synthesis for practitioners in the field **Practical Guide to SAP Core Data Services (CDS)** Espresso Tutorials GmbH Core Data Services (CDS) is SAP's method of defining persistent data models in the database layer. CDS is a key piece of the SAP HANA landscape, speeding up data retrieval by pushing database processing to the database engine. This book provides a practical introduction to the SQL-based functionality and methods. Learn how to use SAP HANA Studio to utilize perspectives to create objects in the SAP HANA database, including the SAP HANA development perspective. Use syntax to create non-CDS database artifacts via SAP HANA Studio development perspective using SAP HANA XS Classic. Explore CDS artifacts, how to use SAP HANA XS to define an artifact, and dive into a detailed example of how to create objects using a CDS concept. Learn how to create CDS objects using SAP HANA web-based development workbench, SAP Web IDE for SAP HANA, and SAP HANA Studio ABAP Workbench. Explore two methods to extract data from CDS views using ABAP. - Get an introduction to CDS and SAP HANA Studio - Create CDS views and code new structures in ABAP - Use templates, associations, and annotations - Explore select clauses and aggregate functions **API Design for C++** Elsevier API Design for C++ provides a comprehensive discussion of Application Programming Interface (API) development, from initial design through implementation, testing, documentation, release, versioning, maintenance, and deprecation. It is the only book that teaches the strategies of C++ API development, including interface design, versioning, scripting, and plug-in extensibility. Drawing from the author's experience on large scale, collaborative software projects, the text offers practical techniques of API design that produce robust code for the long term. It presents patterns and practices that provide real value to individual developers as well as organizations. API Design for C++ explores often overlooked issues, both technical and non-technical, contributing to successful design decisions that produce high quality, robust, and long-lived APIs. It focuses on various API styles and patterns that will allow you to produce elegant and durable libraries. A discussion on testing strategies concentrates on automated API testing techniques rather than attempting to include end-user application testing techniques such as GUI testing, system testing, or manual testing. Each concept is illustrated with extensive C++ code examples, and fully functional examples and working source code for experimentation are available online. This book will be helpful to new programmers who understand the fundamentals of C++ and who want to advance their design skills, as well as to senior engineers and software architects seeking to gain new expertise to complement their existing talents. Three specific groups of readers are targeted: practicing software engineers and architects, technical managers, and students and educators. The only book that teaches the strategies of C++ API development, including design, versioning, documentation, testing, scripting, and extensibility. Extensive code examples illustrate each concept, with fully functional examples and working source code for experimentation available online. Covers various API styles and patterns with a focus on practical and efficient designs for large-scale long-term projects. **Textbook of Clinical Pediatrics** Springer Science & Business Media The new edition of this classic reference offers a problem-based approach to pediatric diseases. It encompasses almost all pediatric subspecialties and covers every pediatric disease and organ system. It includes case studies and over 750 lavish illustrations. **Journal of the Indian Chemical Society Electronic Characterisation of Earth-Abundant Sulphides for Solar Photovoltaics** Springer This book examines the electronic structure of earth-abundant and environmentally friendly materials for use as absorber layers within photovoltaic cells. The corroboration between high-quality photoemission measurements and density of states calculations yields valuable insights into why these materials have demonstrated poor device efficiencies in the vast literature cited. The book shows how the materials' underlying electronic structures affect their properties, and how the band positions make them unsuitable for use with established solar cell technologies. After explaining these poor efficiencies, the book offers alternative window layer materials to improve the use of these absorbers. The power of photoemission and interpretation of the data in terms of factors generally overlooked in the literature, such as the materials' oxidation and phase impurity, is demonstrated. Representing a unique reference guide, the book will be of considerable interest and value to members of the photoemission community engaged in solar cell research, and to a wider materials science audience as well. **World Encyclopaedia of Nations and Nationalities** Discovery Publishing House The origins and development of the fascinating variety of continents, countries and communities of the world are the engrossing subjects of the present prize set of 17 Vols. in 34 Parts of the encyclopaedia. With marvelously lucid text and equally graphic illustrations, the writers and editors present a panoramic account of the splendid variety of the family of mankind, its numerous and varied habitations, its physical, human and economic geography of man and his activities, and the living dynamic relation that mankind had with fellow communities across land and sea as well as with the planet that sustains all of them. The World Encyclopaedia of Nations and Nationalities opens to students, teachers and general readers a vast and beautiful window onto the great as well as the little known customs, manners and cultures of the world, reveals the universal geographical features and singularities of all countries in the continents, the introduces in vivid detail the many kind of inhabitants that are found world-wide. Not only is this brilliantly conceived encyclopaedia the pride of many libraries across the world, but it is also regarded as an apt companion and complement to the earlier historic work of Darwin, namely, Origin of the Species. In its comprehensive sweep and vibrant treatment the present the present volumes of this encyclopaedia will be an essential part of all libraries. **Expert Techniques in Ophthalmic Surgery** Jaypee Brothers Medical Publishers The second edition of this comprehensive, 1032-pages text and atlas provides ophthalmic surgeons and trainees with the latest advances and techniques in their field. Divided into ten sections, the book begins with an overview of the basic principles of ophthalmic surgery. Each of the following sections is dedicated to surgical procedures for diseases and disorders in different parts of the eye. Surgical techniques are explained in a step by step format and each section is colour-coded for easy cross reference and navigation. Ethics and medico-legal issues are also discussed in depth. Authored by internationally recognised experts in ophthalmic surgery, this new edition has been fully revised and updated. Nearly 1000 clinical photographs, illustrations and tables further enhance the extensive text. Key points Comprehensive text and atlas providing latest advances and techniques in ophthalmic surgery Fully revised, second edition with nearly 1000 photographs, illustrations and tables Internationally recognised author team Previous edition (9789351525004) published in 2015 **Applied Bioremediation Active and Passive Approaches** BoD - Books on Demand Bioremediation technologies are gaining immense credibility in the field of waste management because of their eco-compatibility nature. Biomass can interact and confront with water and soil pollutants in both active (live) as well as passive (dead) way, thereby offering numerous opportunities of exploring them for environmental clean-up. In 21st century, wastes are no longer a waste but are recognized as a valuable Resource. Employing novel and integrated strategies for the development of modern bioremediation processes is desperate need of the hour. This edited book on Applied Bioremediation - Active and Passive Approaches contains mix of interesting chapters that will certainly add to the advancement of knowledge and will provide the required valuable resource and stimulus to the researchers worldwide. **Cumulated Index Medicus Shoulder Stiffness Current Concepts and Concerns** Springer This book provides an up-to-date overview of the latest evidence regarding shoulder stiffness or frozen shoulder. All aspects are covered: epidemiology, etiology, anatomy and biomechanics, clinical symptoms, histology and laboratory tests, physical examinations, imaging studies and the various conservative and surgical treatment options. The book is published in cooperation with ISAKOS and reflects the conclusions of the Consensus Meeting of the ISAKOS Upper Extremity Committee in Amsterdam in May 2014, which brought together global opinion leaders in the field. Frozen shoulder itself remains shrouded in mystery. There is ongoing uncertainty over its causation and continuing relative neglect due to the belief that it is a self-limited disease despite the evidence that most patients fail to achieve complete recovery, with many experiencing persistent pain and stiffness. Shoulder Stiffness: Current Concepts and Concerns provides an excellent summary of present knowledge regarding frozen shoulder and will be of value to all who manage the condition. **Lightweight Polymer Composite Structures Design and Manufacturing Techniques** CRC Press This book provides a comprehensive account of developments in the area of lightweight polymer composites. It encompasses design and manufacturing methods for the lightweight polymer structures, various techniques, and a broad spectrum of applications. The book highlights fundamental research in lightweight polymer structures and integrates various aspects from synthesis to applications of these materials. Features Serves as a one stop reference with contributions from leading researchers from industry, academy, government, and private research institutions across the globe Explores all important aspects of lightweight polymer composite structures Offers an update of concepts, advancements, challenges, and application of lightweight structures Current status, trends, future directions, and opportunities are discussed, making it friendly for both new and experienced researchers. **Learning Cardiac Imaging** Springer Science & Business Media After the publication of Learning Diagnostic Imaging, which was an introductory teaching ? le to the ten radiological subspecialties included in the American Boards of Radiology, we began to write a series of teaching ? les on each radiological subspecialty. If the ? rst book of the series was mainly aimed at residents and provided them with an introductory tool to the study of radiology, the subsequent volumes of the series try to provide the reader with an introduction to the study of each radiological subspecialty. In Learning Cardiac Imaging, we intend to review cardiac imaging from the p- spective of the six imaging modalities usually performed to obtain anatomic and functional information of the heart. In old days, conventional radiographs gave us some information about the an- omy and, only secondarily, the pathophysiology of the heart. With the advent of echocardiography, the heart could be studied dynamically. Nuclear Medicine and Cardiac MR allowed the study of cardiac function. 32- and 64-detector multislice CT let us obtain images of the coronary

tree in a noninvasive approach. Cardiac imaging is complex and many health care professionals are needed. Firstly, in the obtention and, secondly, in the interpretation of the images. Not only radiologists, cardiologists, and nuclear medicine physicians are needed, specialized nurses and technicians are indispensable to obtain diagnostic images of such a dynamic anatomic structure as the heart. The authorship of the book reflects its multidisciplinary approach of the book. **Progress in Biological Chirality Elsevier** Following on from *Advances in BioChirality*, *Progress in Biological Chirality* provides a unique summary and review of the most recent developments in the field of biochirality. Living organisms use only one enantiomer of chiral molecules in the majority of biologically important processes. The exact origin and mechanisms for this surprising selectivity are not yet known. This book discusses current research aimed at identifying the scientific reasons that may contribute to this phenomenon. *Progress in Biological Chirality* takes an interdisciplinary approach to this exciting field, covering a wide range of topics, such as, theory, palaeontology and food technology, to name but a few. This book presents findings via a broad spectrum of scientific approaches making it an excellent overview of Biological Chirality, suitable for postgraduate students, practitioners and researchers in the field of chemistry, biochemistry, biology, palaeontology, and food science with an interest in Chirality. This book contains 32 chapters written by Authors, who are leading authorities in the field. Presents the most recent research taking place in this highly challenging field. Contains both reference material for the specialist and provides an overview for those who are interested in the fundamental problems of biology and chemistry. **Bioinorganic Chemistry New Age International** The Coverage In This Book Is Organised In Terms Of The Syllabus Prescribed In Ugc Model Curriculum 2001 For Both Undergraduate And Postgraduate Students Of Chemistry And Biological Sciences. The Book Provides A Comprehensive And In-Depth Treatment Of The Subject. In Addition To Explaining The Basic Principles And Applications In Bioinorganic Chemistry, The Book Also Describes: * Photosynthesis. * Metal Complexes And Their Interaction With Nucleic Acids. * Effect Of Inorganic Pollutants On Biological Systems. The Book Would Serve As An Ideal Text For Students Of Chemistry And Biological Sciences. Researchers In Related Areas Would Find It An Extremely Useful Reference Source. **Advances in Bioremediation and Phytoremediation for Sustainable Soil Management Principles, Monitoring and Remediation Springer Nature** This edited volume deals with the understanding of the issues concerned with the pollution caused by toxic elements and heavy metals and their impacts on the different agro-ecosystems as well as the techniques involved in sustainable remediation and amelioration of polluted soils. Furthermore, the book is a detailed comprehensive account for the treatment technologies from unsustainable to sustainable which includes chapters prepared by professionals with expertise in environmental microbiology, biotechnology, bioremediation, and environmental engineering. It focuses on the characterization, reclamation, bioremediation, and phytoremediation of polluted soils. The research presented also highlights some of the significantly important plant and microbial species involved in remediation, the physiology, biochemistry, and the mechanisms of remediation by various plants and microbes, and suggestions for future improvement of bioremediation technology. It offers insights into the current focus and recent advances in bioremediation and green technology applications for sustainable soil management. **New Trends in Software Methodologies, Tools and Techniques Proceedings of the Thirteenth SoMeT_14 IOS Press** Software is the essential enabling means for science and the new economy. It helps us to create a more reliable, flexible and robust society. But software often falls short of our expectations. Current methodologies, tools, and techniques remain expensive and are not yet sufficiently reliable, while many promising approaches have proved to be no more than case-by-case oriented methods. This book contains extensively reviewed papers from the thirteenth International Conference on New Trends in software Methodology, Tools and Techniques (SoMeT_14), held in Langkawi, Malaysia, in September 2014. The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques, and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business. The emphasis has been on human-centric software methodologies, end-user development techniques and emotional reasoning, for an optimally harmonized performance between the design tool and the user. Topics covered include the handling of cognitive issues in software development to adapt it to the user's mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models. This book provides an opportunity for the software science community to show where we are today and where the future may take us. **Electrokinetic Remediation for Environmental Security and Sustainability John Wiley & Sons** Electrokinetic Remediation for Environmental Security and Sustainability Explore this comprehensive reference on the remediation of contaminated substrates, filled with cutting-edge research and practical case studies. Electrokinetic Remediation for Environmental Security and Sustainability delivers a thorough review of electrokinetic remediation (EKR) for the treatment of inorganic and organic contaminants in contaminated substrates. The book highlights recent progress and developments in EKR in the areas of resource recovery, the removal of pollutants, and environmental remediation. It also discusses the use of EKR in conjunction with nanotechnology and phytoremediation. Throughout the book, case studies are presented that involve the field implementation of EKR technologies. The book also includes discussions of enhanced electrokinetic remediation of dredged co-contaminated sediments, solar-powered bioelectrokinetics for the mitigation of contaminated agricultural soil, advanced electro-fenton for remediation of organics, electrokinetic remediation for PPCPs in contaminated substrates, and the electrokinetic remediation of agrochemicals such as organochlorine compounds. Other topics include: A thorough introduction to the modelling of electrokinetic remediation An exploration of the electrokinetic recovery of tungsten and removal of arsenic from mining secondary resources An analysis of pharmaceutically active compounds in wastewater treatment plants with a discussion of electrochemical advanced oxidation as an on-site treatment A review of rare earth elements, including general concepts and recovery techniques, like electrodialytic extraction A treatment of hydrocarbon-contaminated soil in cold climate conditions Perfect for environmental engineers and scientists, geologists, chemical engineers, biochemical engineers, and scientists working with green technology, *Electrokinetic Remediation for Environmental Security and Sustainability* will also earn a place in the libraries of academic and industry researchers, engineers, regulators, and policy makers with an interest in the remediation of contaminated natural resources. **Agricultural Research The Enteric Nervous System Wiley-Blackwell** Covers all aspects of the structure, function, neurochemistry, transmitter identification and development of the enteric nervous system. This book brings together extensive knowledge of the structure and cell physiology of the enteric nervous system and provides an up-to-date synthesis of the roles of the enteric nervous system in the control of motility, secretion and blood supply in the gastrointestinal tract. It includes sections on the enteric nervous system in disease, genetic abnormalities that affect enteric nervous system function, and targets for therapy in the enteric nervous system. It also includes many newly created explanatory diagrams and illustrations of the organization of enteric nerve circuits. This new book is ideal for gastroenterologists (including trainees/fellows), clinical physiologists and educators. It is invaluable for the many scientists in academia, research institutes and industry who have been drawn to work on the gastrointestinal innervation because of its intrinsic interest, its economic importance and its involvement in unsolved health problems. It also provides a valuable resource for undergraduate and graduate teaching. **Harrison's Principles and Practice of Internal Medicine 19th Edition and Harrison's Principles of Internal Medicine Self-Assessment and Board Review, 19th Edition (EBook)Val-Pak McGraw Hill Professional** SPECIAL OFFER! SAVE WHEN YOU PURCHASE HARRISON'S PRINCIPLES OF INTERNAL MEDICINE, 19e ALONG WITH THE COMPANION BOARD REVIEW BOOK! This dollar-saving Harrison's bundle includes two great resources: Harrison's Principles of Internal Medicine, Nineteenth Edition Through six decades, no resource has matched the authority, esteemed scholarship, and scientific rigor of Harrison's Principles of Internal Medicine. Capturing the countless advances and developments across the full span of medicine, the 19th edition of Harrison's provides a complete update of essential content related to disease pathogenesis, clinical trials, current diagnostic methods and imaging approaches, evidence-based practice guidelines, and established and newly approved treatment methods. Here are just a few of the outstanding features of the Nineteenth Edition: • Presented in two volumes: Volume 1 is devoted to foundational principles, cardinal manifestations of disease and approach to differential diagnosis; Volume 2 covers disease pathogenesis and treatment • NEW chapters on important topics such as Men's Health, The Impact of Global Warming on Infectious Diseases, Fatigue, and many more • Critical updates in management and therapeutics in Hepatitis, Coronary Artery Disease, Ebola Virus Disease, Multiple Sclerosis, Diabetes, Hypertension, Deep Vein Thrombosis and Pulmonary Embolism, Acute and Chronic Kidney Disease, Inflammatory Bowel Disease, Lipoprotein Disorders, HIV and AIDS, and more • Increased number of the popular Harrison's clinical algorithms; clinically relevant radiographic examples spanning hundreds of diseases; clinical-pathologic images in full color: crystal clear, full color drawings and illustrations and helpful tables and summary lists that make clinical application of the content faster than ever • Access to outstanding multi-media resources including practical videos demonstrating essential bedside procedures, physical examination techniques, endoscopic findings, cardiovascular findings, and more The package also includes..... Harrison's Principles of Internal Medicine Self-Assessment and Board Review Based on the content of Harrison's Principles of Internal Medicine, Nineteenth Edition, this full-color study aid is essential for Internal Medicine Board certification or recertification/maintenance of certification, or as a refresher for any internal medicine examination. Reflecting the accuracy, currency, and wide scope of Harrison's, this complete review of internal medicine delivers more than 1,000 extremely challenging review questions, many of which utilize realistic patient scenarios, including radiographic and pathologic images. Each question is accompanied by explanations for correct and incorrect answers. These explanations -- which are derived from and cross-referenced to Harrison's Principles of Internal Medicine, Nineteenth Edition -- are one of the most effective ways to learn and teach internal medicine. They are designed to bolster your understanding of pathophysiology, epidemiology, differential diagnosis, clinical decision making, and therapeutics. You will also find a beautiful full-color atlas. **Information Resources in Toxicology Academic Press** This latest version of *Information Resources in Toxicology (IRT)* continues a tradition established in 1982 with the publication of the first edition in presenting an extensive itemization, review, and commentary on the information infrastructure of the field. This book is a unique wide-ranging, international, annotated bibliography and compendium of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. Thoroughly updated, the current edition analyzes technological changes and is rife with online tools and links to Web sites. IRT-IV is highly structured, providing easy access to its information. Among the "hot topics covered are Disaster Preparedness and Management, Nanotechnology, Omics, the Precautionary Principle, Risk Assessment, and Biological, Chemical and Radioactive Terrorism and Warfare are among the designated. • International in scope, with contributions from over 30 countries • Numerous key references and relevant Web links • Concise narratives about toxicologic sub-disciplines • Valuable appendices such as the IUPAC Glossary of Terms in Toxicology • Authored by experts in their respective sub-disciplines within toxicology **Mechanics of Solids and Structures, Second Edition CRC Press** A popular text in its first edition, *Mechanics of Solids and Structures* serves as a course text for the senior/graduate (fourth or fifth year) courses/modules in the mechanics of solid/advanced strength of materials, offered in aerospace, civil, engineering science, and mechanical engineering departments. Now, *Mechanics of Solid and Structure, Second Edition* presents the latest developments in computational methods that have revolutionized the field, while retaining all of the basic principles and foundational information needed for mastering advanced engineering mechanics. Key changes to the second edition include full-color illustrations throughout, web-based computational material, and the addition of a new chapter on the energy methods of structural mechanics. Using authoritative, yet accessible language, the authors explain the construction of expressions for both total potential energy and complementary potential energy associated with structures. They explore how the principles of minimal total potential energy and complementary energy provide the means to obtain governing equations of the structure, as well as a means to determine point forces and displacements with ease using Castigliano's Theorems I and II. The material presented in this chapter also provides a deeper understanding of the finite element method, the most popular method for solving structural mechanics problems. Integrating computer techniques and programs into the body of the text, all chapters offer exercise problems for further understanding. Several appendices provide examples, answers to select problems, and opportunities for investigation into complementary topics. Listings of computer programs discussed are available on the CRC Press website. **Practical Synthetic Organic Chemistry Reactions, Principles, and Techniques John Wiley & Sons** This book is a hands-on guide for the organic chemist. Focusing on the most reliable and useful reactions, the chapter authors provide the information necessary for a chemist to strategically plan a synthesis, as well as repeat the procedures in the laboratory. Consolidates all the key advances/concepts in one book, covering the most important reactions in organic chemistry, including substitutions, additions, eliminations, rearrangements, oxidations, reductions Highlights the most important reactions, addressing basic principles, advantages/disadvantages of the methodology, mechanism, and techniques for achieving laboratory success Features new content on recent advances in CH activation, photoredox and electrochemistry, continuous chemistry, and application of biocatalysis in synthesis Revamps chapters to include new and additional examples of chemistry that have been demonstrated at a practical scale **Practical Cardiac Electrophysiology JP Medical Ltd** Comprehensive guide to cardiac electrophysiology covering diagnosis and management of different types of arrhythmia. Highly illustrated with nearly 300 images and tables. **Dissertation Abstracts International The humanities and social sciences. A Corrosion Engineering Principles and Solved Problems Elsevier** Corrosion Engineering: Principles and Solved Problems covers corrosion engineering through an extensive theoretical description of the principles of corrosion theory, passivity and corrosion prevention strategies and design of corrosion protection systems. The book is updated with results published in papers and reviews in the last twenty years. Solved corrosion case studies, corrosion analysis and solved corrosion problems in the book are presented to help the reader to understand the corrosion fundamental principles from thermodynamics and electrochemical kinetics, the mechanism that triggers the corrosion processes at the metal interface and how to control or inhibit the corrosion rates. The book covers the multidisciplinary nature of corrosion engineering through topics from electrochemistry, thermodynamics, mechanical, bioengineering and civil engineering. Addresses the corrosion theory, passivity, material selections and designs Covers extensively the corrosion engineering protection strategies Contains over 500 solved problems, diagrams, case studies and end of chapter problems Could be used as a text in advanced/graduate corrosion courses as well self-study reference for corrosion engineers **Level of Detail for 3D Graphics Morgan Kaufmann** Preface -- Foreword -- Part I: Generation -- 1. Introduction -- 2. Mesh Simplification -- 3. Error Metrics --

Part II: Application -- 4. Runtime Frameworks -- 5. Catalog of Useful Algorithms -- 6. Gaming Optimizations -- 7. Terrain Level of Detail -- Part III: Advanced Issues -- 8. Perceptual Issues -- 9. Measuring Visual Fidelity -- 10. Temporal LOD -- Glossary -- Bibliography

Mesh simplification -- Simplification error metrics -- Run-time frameworks -- A catalog of useful algorithms -- Gaming optimizations -- Terrain level of detail -- Perceptual issues -- Measuring visual fidelity -- Temporal detail.

Sorghum Molecular Breeding *Springer* This book provides an up-to-date overview of international research work on sorghum. Its comprehensive coverage of our current understanding of transgenic development in sorghum and the strategies that are being applied in molecular breeding make this book unique. Important areas such as genetic diversity, QTL mapping, heterosis prediction, genomic and bioinformatics resources, post-genome sequencing developments, molecular markers development using bioinformatics tools, genetic transformation and transgenic research are also addressed. The availability of the genome sequence along with other recent developments in sequencing and genotyping technologies has resulted in considerable advances in the area of sorghum genomics. These in turn have led to the generation of a large number of DNA-based markers and resulted in the identification and fine mapping of QTL associated with grain yield, its component traits, biotic and abiotic stress tolerance as well as grain quality traits in sorghum. Though a large volume of information has accumulated over the years, especially following the sequencing of the sorghum genome, until now it was not available in a single reference resource. This book fills that gap by documenting advances in the genomics and transgenic research in sorghum and presenting critical reviews and future prospects. "Sorghum Molecular Breeding" is an essential guide for students, researchers and managers who are involved in the area of molecular breeding and transgenic research in sorghum and plant biologists in general.

Leaf Optical Properties *Cambridge University Press* Presents state-of-the-art research into leaf interactions with light, for scientists working in remote sensing, plant physiology, ecology and resource management.

NBS Special Publication NIST Special Publication Electrochemical Remediation Technologies for Polluted Soils, Sediments and Groundwater *John Wiley & Sons* An unmatched reference on electrochemical technologies for soil, sediment, and groundwater pollution remediation. Electrochemical technologies are emerging as important approaches for effective and efficient pollution remediation, both on their own and in concert with other remediation techniques. *Electrochemical Remediation Technologies for Polluted Soils, Sediments and Groundwater* provides a systematic and clear explanation of fundamentals, field applications, as well as opportunities and challenges in developing and implementing electrochemical remediation technologies. Written by leading authorities in their various areas, the text summarizes the latest research and offers case studies that illustrate equipment, installation, and methods employed in real-world remediations. Divided into nine sections, the coverage includes: Introduction and fundamental principles Remediation of heavy metals and other inorganic pollutants Remediation of organic pollutants Remediation of mixed contaminants Electrokinetic barriers Integrated (coupled) technologies Mathematical modeling Economic and regulatory considerations Field applications and performance assessment Unique as a comprehensive reference on the subject, *Electrochemical Remediation Technologies for Polluted Soils, Sediments and Groundwater* will serve as a valuable resource to all environmental engineers, scientists, regulators, and policymakers.

Basic Sciences for MCEM *CRC Press* This book is a dedicated resource for those sitting the Part A of the MCEM (Membership of the College of Emergency Medicine) examination. It forms an essential revision guide for emergency trainees who need to acquire a broad understanding of the basic sciences, which underpin their approach to clinical problems in the emergency department. Common clinical scenarios are used to highlight the essential underlying basic science principles, providing a link between clinical management and a knowledge of the underlying anatomical, physiological, pathological and biochemical processes. Multiple choice questions with reasoned answers are used to confirm the candidates understanding and for self testing. Unlike other recent revision books which provide MCQ questions with extended answers, this book uses clinical cases linked to the most recent basic science aspects of the CEM syllabus to provide a book that not only serves as a useful revision resource for the Part A component of the MCEM examination, but also a unique way of understanding the processes underlying common clinical cases seen every day in the emergency department. This book is essential for trainees sitting the Part A of the MCEM exam and for clinicians and medical students who need to refresh their knowledge of basic sciences relevant to the management of clinical emergencies.

Netter's Cardiology E-Book *Elsevier Health Sciences* Perfect for residents, generalists, anesthesiologists, emergency department physicians, medical students, nurses, and other healthcare professionals who need a practical, working knowledge of cardiology. *Netter's Cardiology, 3rd Edition*, provides a concise overview of cardiovascular disease highlighted by unique, memorable Netter illustrations. This superb visual resource showcases the well-known work of Frank H. Netter, MD, and his successor, Carlos Machado, MD, a cardiologist who has created clear, full-color illustrations in the Netter tradition. New features and all-new chapters keep you up to date with the latest information in the field. Includes 13 all-new chapters: Basic Anatomy and Embryology of the Heart, Stem Cell Therapies for Cardiovascular Disease, Diabetes and Cardiovascular Events, Clinical Presentation of Adults with Congenital Heart Disease, Transcatheter Aortic Valve Replacement, Deep Vein Thrombosis and Pulmonary Embolism, and more. Features new coverage of 3-D TEE imaging for structural heart procedures. Contains color-coded diagnostic and therapeutic algorithms and clinical pathways. Uses an easy-to-follow, templated format, covering etiology, pathogenesis, clinical presentation, diagnostic approach, and management/therapy for each topic. Offers dependable clinical advice from Drs. George A. Stouffer, Marschall S. Runge, Cam Patterson, and Joseph S. Rossi, as well as many world-renowned chapter contributors.

Advancement in Crop Improvement Techniques *Woodhead Publishing* Advancement in Crop Improvement Techniques presents updates on biotechnology and molecular biological approaches which have contributed significantly to crop improvement. The book discusses the emerging importance of bioinformatics in analyzing the vast resources of information regarding crop improvement and its practical application and utilization. Throughout this comprehensive resource, emphasis is placed on various techniques used to improve agricultural crops, providing a common platform for the utility of these techniques and their combinations. Written by an international team of contributors, this book provides an in-depth analysis of existing tools and a framework for new research. Reviews techniques used for crop improvement, from selection and crossing over, to microorganismal approaches Explores the role of conventional biotechnology in crop improvement Summarizes the combined approaches of cytogenetics and biotechnology for crop improvement, including the importance of molecular techniques in this process Focuses on the emerging role of bioinformatics for crop improvement

Improving Information Security Practices through Computational Intelligence *IGI Global* The recent explosion in complex global networking architectures has spurred a concomitant rise in the need for robust information security. Further, as computing power increases exponentially with every passing year, so do the number of proposed cryptographic schemata for improving and ensuring the encryption integrity of cutting-edge infosec protocols. *Improving Information Security Practices through Computational Intelligence* presents an overview of the latest and greatest research in the field, touching on such topics as cryptology, stream ciphers, and intrusion detection, and providing new insights to an audience of students, teachers, and entry-level researchers working in computational intelligence, information security, and security engineering.

Futuristic Materials *Allied Publishers*

Plant Pathologist's Pocketbook *CABI* This book contains 5 sections covering the main activity groups in plant pathology. Topics discussed include epidemiology and disease forecasting, disease management, disease resistance, biochemical and molecular techniques, and electronic databases and information technology.