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Ultra-High Performance Liquid Chromatography and Its Applications

John Wiley & Sons Explores both the benefits and limitations of new UHPLC technology High performance liquid chromatography (HPLC) has been widely used in analytical chemistry and biochemistry to separate, identify, and quantify compounds for decades. The science of liquid chromatography, however, was revolutionized a few years ago with the advent of ultra-high performance liquid chromatography (UHPLC), which made it possible for researchers to analyze sample compounds with greater speed, resolution, and sensitivity. Ultra-High Performance Liquid Chromatography and Its Applications enables readers to maximize the performance of UHPLC as well as develop UHPLC methods tailored to their particular research needs. Readers familiar with HPLC methods will learn how to transfer these methods to a UHPLC platform and vice versa. In addition, the book explores a variety of UHPLC applications designed to support research in such fields as pharmaceuticals, food safety, clinical medicine, and environmental science. The book begins with discussions of UHPLC method development and method transfer between HPLC and UHPLC platforms. It then examines practical aspects of UHPLC. Next, the book covers: Coupling UHPLC with mass spectrometry Potential of shell particles in fast liquid chromatography Determination of abused drugs in human biological matrices Analyses of isoflavones and flavonoids Therapeutic protein characterization Analysis of illicit drugs The final chapter of the book explores the use of UHPLC in drug metabolism and pharmacokinetics studies for traditional Chinese medicine. With its frank discussions of UHPLC's benefits and limitations, Ultra-High Performance Liquid Chromatography and Its Applications equips analytical scientists with the skills and knowledge needed to take full advantage of this new separation technology.

MRI from Picture to Proton

Cambridge University Press MRI from Picture to Proton presents the basics of MR practice and theory in a unique way: backwards! The subject is approached just as a new MR practitioner would encounter MRI: starting from the images, equipment and scanning protocols, rather than pages of physics theory. The reader is brought face-to-face with issues pertinent to practice immediately, filling in the theoretical background as their experience of scanning grows. Key ideas are introduced in an intuitive manner which is faithful to the underlying physics but avoids the need for difficult or distracting mathematics. Additional explanations for the more technically inquisitive are given in optional secondary text boxes. The new edition is fully up-dated to reflect the most recent advances, and includes a new chapter on parallel imaging. Informal in style and informed in content, written by recognized effective communicators of MR, this is an essential text for the student of MR.

Manual of Pesticide Residue Analysis, Manual of Pesticide Residue Analysis V II

Wiley-VCH This collection of up-to-date methods for analyzing pesticide residues represents those proven methods that are of most value to the analyst. The methods chosen demonstrate a particularly high standard of reliability and have all been validated by at least one other specially qualified laboratory. They are also presented in such detailed and readily understandable form that analysts using them cannot possibly be left in doubt about how to proceed. Each of the single methods specifies the substrates to which it is suited and on which it has been validated, among them food crops, stored commodities, processed food of vegetable and animal origin, feedstuffs, forage and fodder crops, soil, and water. Both Volumes arrange the compound-specific methods in the alphabetical order of the compound names. They also contain indexes to provide quick access to the desired method. The single methods each contain the chemical name and the structural formula of the respective compound. Multiple methods are preceded by a table in which chemical names and structural formulae are presented jointly for all compounds.

Freedom of Information Act Source Book: Legislative Materials, Cases, Articles ...

The Pain Management Handbook

A Concise Guide to Diagnosis and Treatment

Springer Science & Business Media *Those who do not feel pain seldom think that it is felt. SAMUEL JOHNSON, The Rambler, no. 48 (September 1, 1750) Who among us has not experienced the suffering of a patient with chronic disease, who in addition to the vicissitudes of fatigue, anxiety, and frustration, must also deal with the suffering of pain? Who among us has not considered, and then reconsidered, whether a patient's complaints are worthy of a narcotic and thence worried about the social and legal implications of chronic use? Who among us has not refused pain medications to our patients for fear that use was turning into abuse? Finally, who among us would not have liked a clinical guide to a myriad of syndromes, all of which have pain as their common denominator, in the hopes of developing some strategy to prioritize treatment. Our purpose in preparing The Pain Management Handbook is to provide the information needed by clinicians to develop strategies that optimize pain management. It is the goal of the editors and authors that the present handbook, above all else, will be clinically useful. Its aim is to provide practical information regarding the diagnosis and treatment of disorders causing pain, along with tables and graphics to provide the busy practitioner with rapid access to relevant data.*

Mild Traumatic Brain Injury Rehabilitation Toolkit

Department of the Army *NOTE: NO FURTHER DISCOUNT ON THIS PRODUCT TITLE --OVERSTOCK SALE -- Significantly reduced list price Traumatic brain injury (TBI) is a complex condition for which limited research exists. The recent conflicts in Iraq and Afghanistan have resulted in numerous service members returning home after sustaining TBI, and healthcare providers scrambling to find resources on how to treat them. This toolkit is a comprehensive source of inventories and therapy options for treating service members with mild TBI. All aspects of mild TBI are covered, including vestibular disorders, vision impairment, balance issues, posttraumatic headache, temporomandibular dysfunction, cognition, and fitness, among others. With easy-to-follow treatment options and evaluation instruments, this toolkit is a one-stop resource for clinicians and therapists working with patients with mild TBI.*

Radiological English

Springer Science & Business Media *This is an introductory book to radiological English on the basis that there are a lot of radiologists, radiology residents, radiology nurses, radiology students, and radiographers worldwide whose English level is indeterminate because their reading skills are much higher than their fluency. It is intended to help those health care professionals who need English for their work but do not speak English on a day-to-day basis.*

Heavy Metals in Soils

Trace Metals and Metalloids in Soils and their Bioavailability

Springer Science & Business Media *This third edition of the book has been completely re-written, providing a wider scope and enhanced coverage. It covers the general principles of the natural occurrence, pollution sources, chemical analysis, soil chemical behaviour and soil-plant-animal relationships of heavy metals and metalloids, followed by a detailed coverage of 21 individual elements, including: antimony, arsenic, barium, cadmium, chromium, cobalt, copper, gold, lead, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, tin, tungsten, uranium, vanadium and zinc. The book is highly relevant for those involved in environmental science, soil science, geochemistry, agronomy, environmental health, and environmental engineering, including specialists responsible for the management and clean-up of contaminated land.*

High Performance Computing

35th International Conference, ISC High Performance 2020, Frankfurt/Main, Germany, June 22–25, 2020, Proceedings

Springer This book constitutes the refereed proceedings of the 35th International Conference on High Performance Computing, ISC High Performance 2020, held in Frankfurt/Main, Germany, in June 2020.* The 27 revised full papers presented were carefully reviewed and selected from 87 submissions. The papers cover a broad range of topics such as architectures, networks & infrastructure; artificial intelligence and machine learning; data, storage & visualization; emerging technologies; HPC algorithms; HPC applications; performance modeling & measurement; programming models & systems software. *The conference was held virtually due to the COVID-19 pandemic. Chapters "Scalable Hierarchical Aggregation and Reduction Protocol (SHARP) Streaming-Aggregation Hardware Design and Evaluation", "Solving Acoustic Boundary Integral Equations Using High Performance Tile Low-Rank LU Factorization", "Scaling Genomics Data Processing with Memory-Driven Computing to Accelerate Computational Biology", "Footprint-Aware Power Capping for Hybrid Memory Based Systems", and "Pattern-Aware Staging for Hybrid Memory Systems" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Asia-Pacific Rebalance 2025

Capabilities, Presence, and Partnerships

Rowman & Littlefield In 2015, Congress tasked the Department of Defense to commission an independent assessment of U.S. military strategy and force posture in the Asia-Pacific, as well as that of U.S. allies and partners, over the next decade. This CSIS study fulfills that congressional requirement.

Pioneering Ideas for the Physical and Chemical Sciences

Josef Loschmidt's Contributions and Modern Developments in Structural Organic Chemistry, Atomistics, and Statistical Mechanics

Springer Science & Business Media This volume presents the contributions delivered at the "Josef-Loschmidt-Symposium," which took place in Vienna, June 25-27, 1995. The symposium was arranged to honor Josef Loschmidt one hundred years after his death (8 July 1895), to evaluate the significance of his contributions to chemistry and physics from a modern point of view and to trace the development of scientific fields in which he had done pioneering work. Loschmidt is widely known for the first calculation of the size of molecules (1865/66), which also led to values for the number of molecules in unit gas volume and for the mass of molecules. With critical analyses of problems in statistical physics he made important contributions to the development of that field, "Loschmidt's paradoxon" continuing to be a point of departure for present day studies and discussions. For decades there was little awareness that Loschmidt was a pioneer in organic structural chemistry. Only in recent years has Loschmidt's first scientific publication "Chemische Studien I", published in 1861, become more widely known and it is now recognized that with his ideas on the structure of organic molecules he was greatly ahead of the chemists of that time. The papers in these proceedings are arranged in three sections: 1. Organic structural chemistry (Chapters 1-12). 2. Physics and physical chemistry (Chapters 13-26). 3. Loschmidt's biography, Loschmidt's world (Chapters 27-33).

Advances in Structural Engineering Materials, Volume Three

Springer The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 - 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. *Advances in Structural Engineering* is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers.

Dermatologic Complications with Body Art Tattoos, Piercings and Permanent Make-Up

Springer Science & Business Media Body piercings, tattoos, and permanent make-up have become very popular as a fashion statement in recent decades. This book guides the reader through the world of body art. An overview is first provided of the history and epidemiology of tattoos and piercings. Subsequent chapters go on to examine in detail the materials and devices used in various forms of body art, and the techniques employed. All relevant risks and potential complications are clearly described with the aid of color illustrations. Special attention is paid to allergic reactions and the management of complications. The closing chapter examines the techniques and devices used for tattoo removal, with a particular focus on the use of different lasers.

Heavy Metals in Soils

Springer Science & Business Media Heavy metals in soils continue to receive increasing attention due to the growing scientific and public awareness of environmental issues and the development of analytical techniques to measure their concentrations accurately. Building on the success and acclaim of the first edition, this book continues to provide an up-to-date, balanced and comprehensive review of the subject in two sections: the first providing an introduction to the metals chemistry, sources and methods used for their analysis; and the second containing chapters dealing with individual elements in detail.

The Next Arms Race

CreateSpace With most of the world's advanced economies now stuck in recession; Western support for defense cuts and nuclear disarmament increasing; and a major emerging Asian power at odds with its neighbors and the United States; it is tempting to think our times are about to rhyme with a decade of similar woes—the disorderly 1930s. Might we again be drifting toward some new form of mortal national combat? Or, will our future more likely ape the near-half-century that defined the Cold War—a period in which tensions between competing states ebbed and flowed but peace mostly prevailed by dint of nuclear mutual fear and loathing? The short answer is, nobody knows. This much, however, is clear: The strategic military competitions of the next 2 decades will be unlike any the world has yet seen. Assuming U.S., Chinese, Russian, Israeli, Indian, French, British, and Pakistani strategic forces continue to be modernized and America and Russia continue to reduce their strategic nuclear deployments, the next arms race will be run by a much larger number of contestants—with highly destructive strategic capabilities far more closely matched and capable of being quickly enlarged than in any other previous period in history.

Genetic Counseling for Adult Neurogenetic Disease

A Casebook for Clinicians

Springer *The adult patient diagnosed with or at risk for a neurogenetic disease has many questions and concerns for the genetic counselor, the neurologist, and other practitioners. Because of the emotional and potentially life-altering impact of these diseases on the patient and family, counseling can be especially challenging. A rare hands-on guide to the subject, Genetic Counseling for Adult Neurogenetic Disease deals with core issues that differentiate adult neurogenetic counseling from its more familiar pediatric counterpart. This innovative book with accompanying videos is designed to fill in deficits in this area typical of training programs in genetic counseling (which have pediatrics and prenatal concentrations) and neurology (which rarely cover genetic counseling). For each condition featured, chapters include a detailed overview of genetic symptoms, diagnostic criteria, and management, plus guidelines for asking, and answering, pertinent questions. The major concentration, however, is on genetic counseling issues and case histories illustrating these issues. As an added dimension, the accompanying videos depict representative issues and challenges in genetic counseling for specific diseases in addition to the basics of a neurological examination. Among the conditions discussed: Movement disorders, including Parkinson's disease. Dementias, including Alzheimer's disease. Stroke. Motor neuron diseases. Neuropathies and channelopathies. Adult muscular dystrophies. Neurocutaneous syndromes. Plus a section on neurological and neuropsychological evaluation. This is information that will stay relevant as technologies change and genetic understanding evolves. Genetic Counseling for Adult Neurogenetic Disease offers advanced clinical wisdom for genetic counselors as well as neurologists, neuropsychologists, and other referring clinicians.*

Geology of Millard County, Utah

Utah Geological Survey *This bulletin serves not only to introduce the non-geologist to the rich geology of Millard County, but also to provide professional geologists with technical information on the stratigraphy, paleontology, and structural geology of the county. Millard County is unique among Utah's counties in that it contains an exceptionally complete billion-year geologic record. This happened because until about 200 million years ago the area of present-day Millard County lay near sea level and was awash in shallow marine waters on a continental shelf upon which a stack of fossil-bearing strata more than 6 miles (10 km) thick slowly accumulated. This bulletin summarizes what is known about these strata, as well as younger rocks and surficial deposits in the county, and provides references to scientific papers that describe them in greater detail. Mountains North 30 x 60 (1:100,000-scale) quadrangles. These companion maps and this bulletin portray the geology of Millard County more completely and accurately than any previously published work.*

Primary Explosives

Springer Science & Business Media *This is the first comprehensive overview of this topic. It serves as a single source for information about the properties, preparation, and uses of all relevant primary explosives. The first chapter provides background such as the basics of initiation and differences between requirements on primary explosives used in detonators and igniters. The authors then clarify the influence of physical characteristics on explosive properties, focusing on those properties required for primary explosives. Furthermore, the issue of sensitivity is discussed. All the chapters on particular groups of primary explosives are structured in the same way, including introduction, physical and chemical properties, explosive properties, preparation and documented use. The authors thoroughly verified all data and information. A unique feature of this book are original microscopic images of some explosives.*

Dental Secrets

Using a question-and-answer format, this book covers all the latest clinical and public health aspects of dentistry as well as how computers and the Internet can manage a dental practice and quickly provide information to dental practitioners. The content of all chapters has been update and revised. New questions, answers, and illustrations reflect current additions to dental materials, surgical tehcniques, modalities of diagnosis and infection.

The Charnoly Body

A Novel Biomarker of Mitochondrial Bioenergetics

CRC Press Diversified physicochemical injuries trigger Charnoly body (CB) formation as pleomorphic, electron-dense, multi-lamellar stacks of nonfunctional mitochondrial membranes in the most vulnerable cell. Free radicals induce downregulation of mitochondrial DNA, microRNA, AgNOR, and epigenetics to trigger CB molecular pathogenesis. CB is eliminated by energy (ATP)-driven lysosome-dependent charnolophagy as a basic molecular mechanism of intracellular detoxification to prevent acute and chronic diseases. Accumulation of CB at the junction of axon hillock and charnosome (CS) at the synapses causes cognitive impairments; whereas, nonspecific induction of CB causes GIT stress, myelosuppression, alopecia, neurotoxicity, cardiotoxicity, and infertility in multidrug-resistant malignancies. Hence, stem cell-specific CB, charnolophagy, and CS agonists/antagonists are introduced as novel charnolopharmacotherapeutics for the successful treatment of cardiovascular diseases, neurodegenerative diseases, infectious diseases, drug addiction, and cancer. Nanoparticles to improve drug delivery, CS exocytosis, and disease-specific spatiotemporal charnosomics employing correlative and combinatorial bioinformatics boost mitochondrial bioenergetics through balanced diet, exercise, and antioxidants. The book will be of interest to medical scientists and practitioners.

Technical Support Document for Water Quality-based Toxics Control

Contemporary Esthetic Dentistry - E-Book

Elsevier Health Sciences Covering both popular and advanced cosmetic procedures, Contemporary Esthetic Dentistry enhances your skills in the dental treatments leading to esthetically pleasing restorations. With over 1,600 full-color illustrations, this definitive reference discusses the importance of cariology and caries management, then covers essential topics such as ultraconservative dentistry, color and shade, adhesive techniques, anterior and posterior direct composites, and finishing and polishing. Popular esthetic treatment options are described in detail, including bleaching or tooth whitening, direct and porcelain veneers, and esthetic inlays and onlays. Coverage of advanced cosmetic procedures includes implants, perioesthetics, ortho-esthetics, and pediatric esthetics, providing a solid understanding of treatments that are less common but can impact patient outcomes. Developed by Dr. George A. Freedman, a renowned leader in the field, Contemporary Esthetic Dentistry also allows you to earn Continuing Education credits as you improve your knowledge and skills. Continuing Education credits are available, allowing you to earn one to two CE credits per chapter. Detailed coverage of popular esthetic procedures includes bleaching, direct and porcelain veneers, inlays and onlays, posts and cores, porcelain-fused-to-metal restorations, zirconium crowns and bridges, and complete dentures. Coverage of advanced procedures includes implants, perioesthetics, ortho-esthetics, pediatric esthetics, and sleep-disordered breathing, providing a solid understanding of less-frequently encountered topics that impact the esthetic treatment plan and outcomes. Coverage of key esthetic dentistry topics and fundamental skills includes cariology and caries management, understanding dental materials, photography, understanding and manipulating of color and shade, adhesive techniques, anterior and posterior direct composites, and finishing and polishing. Over 1,600 full-color photos and illustrations help to clarify important concepts and techniques, and show treatments from beginning of the case to the final esthetic results. Well-known and respected lead author George A. Freedman is a recognized author, educator, and speaker, and past president of the American Academy of Cosmetic Dentistry and co-founder of the Canadian Academy for Esthetic Dentistry. Expert contributors are leading educators and practicing clinicians, including names such as Irvin Smigel (the father of esthetic dentistry), Chuck N. Maragos (the father of contemporary diagnostics), Wayne Halstrom (a pioneer in the area of dental sleep medicine), David Clark (one of the pioneers of the microscope in restorative dentistry and founder the Academy of Microscope Enhanced Dentistry), Edward Lynch (elected the most influential person in UK Dentistry in 2010 by his peers), Joseph Massad (creator, producer, director, and moderator of two of the most popular teaching videos on the subject of removable prosthodontics), Simon McDonald (founder and CEO of Triodent Ltd, an international dental manufacturing and innovations company), and many more!

Indoor Environmental Quality

BoD - Books on Demand This book deals with indoor environmental quality (IEQ), which encompasses diverse factors that affect human life inside a building. These factors include indoor air quality (IAQ), lighting, acoustics, drinking water, ergonomics, electromagnetic radiation, and so on. Enhanced environmental quality can improve the quality of life and productivity of the occupants, increase the resale value of the building, and minimize the penalties on building owners. The book covers an overview of IEQ and its research progress, IAQ and its monitoring, the best indoor illumination scenes, IEQ in healthcare buildings, and acoustic comfort in residential buildings and places of worship. This book is expected to benefit undergraduate and postgraduate students, researchers, teachers, practitioners,

policy makers, and every individual who has a concern for healthy life.

American Cinematographer Manual

American Cinematographer Volume One is the reference guide containing in-depth chapters by noted professionals such as "Framing for Television" by Dave Kenig; "Comparisons of 1.85, Anamorphic and Super 35 Film Formats" by Rob Hummel; "Anamorphic Cinematography" by John Hora, ASC; "Lenses by Iain Neil; "Motion-Control Cinematography" by Richard Edlund, ASC; "Aerial Cinematography" by Jon Kranhouse; "Underwater Cinematography" by Pete Romano, ASC; "Digital Postproduction for Film" by Bill Feightner and Robert L. Eicholz; "Shooting 16mm Color Negative for Blowup to 35mm" by Irwin Young, etc. Volume Two is the field guide starts with camera section assembled by Jon Fauer, ASC and continues with all of the tables and charts for quick reference while working on the set. Each book is 6"x9" with over 400 pages. Each volume also contains the complete table of contents and index for both books for ease of use.

Chemical Hazards Response Information System

Hazardous Chemical Data Manual

Meaning in the Visual Arts

Since its original publication, Erwin Panofsky's *Meaning in the Visual Arts* has been standard reading for students of art history. It is both an introduction to the study of art and, for those with more specialized interests, a profound discussion of art and life in the Middle Ages and Renaissance. Panofsky's historical technique reveals an abundance of detail, detail he skillfully relates to the life and work of individual painters and their times. The papers in this volume represent a cross-section of Panofsky's major work. Included are selections from his well-known *Studies in Iconology* and *The Life and Art of Albrecht Durer*, plus an introduction and an epilogue--*The History of Art as a Humanistic Discipline* and *Three Decades of Art History in the United States: Impressions of a Transplanted European*--as well as pieces written especially for this collection. All display Panofsky's vast erudition and deep commitment to a humanistic conception of art and art history.

Land and Calendar

The Priestly Document from Genesis 1 to Joshua 18

Bloomsbury Publishing Thanks to very peculiar style and theology, Pg was identified as far back as 1869 by Theodor Nöldeke and remains one of the last pillars of Pentateuch research after the fall of the Wellhausen model. Its existence is rarely doubted, but its extent is debated. Does it end already in Exodus (Otto, Pola, Bauks) or does it go as far as Deuteronomy (Noth, Frevel) or even into Joshua (Lohfink, Knauf)? The end determines Pg's notion of the land and its conquest, important subjects today for the formation of the Pentateuch (was there first a Hexateuch?). The 364-day perpetual calendar offers a reliable criterion to identify Pg within the final text of the Hexateuch because the simple mathematics of the calendar are easier to control than hypothetical redactors. Pg is divided into seven periods, from creation to the entry of the sons of Israel in an empty land of Canaan. The festival calendar of Leviticus 23, and the Jubilee of Lev 25 constitute the heart of Pg, the practical outworking of principles presented in the narrative. Bloodless atonement with no connection to any temple whatsoever, peaceful entry into the empty Promised Land, eternal sabbatical rhythm, are Pg's major theological characteristics.

Sturdevant's Art & Science of Operative Dentistry

Mosby Incorporated The number one dental title in the world, *STURDEVANT'S ART & SCIENCE OF OPERATIVE DENTISTRY*, is the book of choice for dental students and practitioners. Designed to be used by students throughout their dental education program and into professional clinical practice. Covers in detail the appropriate material needed to understand theory by using a heavily illustrated, step-by-step approach related to biological rationales. Both practical and scientific, this book is rich with restorative and preventive concepts fully supported by sound clinical and laboratory research. This is the most

complete operative dentistry text on the market, integrating both theory and practice. Starting with dental anatomy and occlusion, *STURDEVANT'S ART & SCIENCE OF OPERATIVE DENTISTRY* presents the most current information on cariology, infection control, dental materials, and patient assessment -- including medical concerns. All chapters have been thoroughly revised to reflect the numerous changes that are occurring in dentistry. New techniques are presented so today's students and practitioners may incorporate them into their approach to providing the care that patients require and often demand. Provides discussion of treatment planning and reviews of topical issues Includes computer assisted design and computer assisted machining Incorporates procedural alternatives that offer the practitioner choices in performing each procedure Features new and contemporary 2 colour format and 1200 new illustrations Showcases the latest techniques in operative dentistry and four new chapters present the most important concepts of enamel and dentin adhesion as well as composite and amalgam restorations. Spanish version of 3rd edition also available, ISBN: 84-8174-187-6

VOLVO PENTA MD2010, MD2020, MD2030, MD2040

Workshop Manual

Knowledge Management, Innovation and Big Data

Implications for Sustainability, Policy Making and Competitiveness

MDPI The evolution of knowledge management theory and the special emphasis on human and social capital sets new challenges for knowledge-driven and technology-enabled innovation. Emerging technologies including big data and analytics have significant implications for sustainability, policy making, and competitiveness. This edited volume promotes scientific research into the potential contributions knowledge management can make to the new era of innovation and social inclusive economic growth. We are grateful to all the contributors of this edition for their intellectual work. The organization of the relevant debate is aligned around three pillars: SECTION A. DATA, KNOWLEDGE, HUMAN AND SOCIAL CAPITAL FOR INNOVATION We elaborate on the new era of knowledge types and the emerging forms of social capital and their impact on technology-driven innovation. Topics include: · Social Networks · Smart Education · Social Capital · Corporate Innovation · Disruptive Innovation · Knowledge integration · Enhanced Decision-Making. SECTION B. KNOWLEDGE MANAGEMENT & BIG DATA ENABLED INNOVATION In this section, knowledge management and big data applications and systems are presented. Selective topic include: · Crowdsourcing Analysis · Natural Language Processing · Data Governance · Knowledge Extraction · Ontology Design Semantic Modeling SECTION C. SUSTAINABLE DEVELOPMENT In the section, the debate on the impact of knowledge management and big data research to sustainability is promoted with integrative discussion of complementary social and technological factors including: · Big Social Networks on Sustainable Economic Development · Business Intelligence

Constraint-induced Movement Therapy

ios PressInc Constraint-Induced Movement therapy (CI therapy) is a behavioral approach to neurorehabilitation based on a program of neuroscience experiments conducted with monkeys. Evidence has accumulated to support the efficacy of CI therapy for rehabilitating hemiparetic arm use in individuals with chronic stroke. This book addresses the related topics.

Publications of the National Bureau of Standards ... Catalog

Air Navigation Radio Aids

The chemistry of powder and explosives

VOLVO PENTA MD 11C, C, MD 17C, D

Workshop Manual

Organometallic Chemistry

Oxford University Press, USA Spessard and Miessler's Organometallic Chemistry, originally published by Prentice Hall in 1997, is widely acknowledged as the most appropriate text for undergraduates and beginning graduate students taking this course. It is a highly readable and approachable text that starts with the basic inorganic chemistry needed to understand this advanced topic. Unlike the primary competing book by Crabtree (Wiley), S/M places a strong emphasis on structure and bonding in the first several chapters, which lay the foundation for later discussion of reaction types and applications. The organization of material is much more accessible for students who have never seen organometallic chemistry before. In addition to being pitched at the right level for undergraduate students, S/M presents outstanding explanations of important core topics such as molecular orbitals and bonding and supports these discussions with detailed illustrations and praised end of chapter problems. The second edition has been significantly revised and updated to include advancements over the last ten years in NMR, IR spectroscopy, nanotechnology and physical methods. The authors have significantly updated four chapters (9, 10, 11 and 12). Chapter 9 (catalysis) has been revised to cover the advances in catalytic cycle research. Chapter 10 in the first edition, which covered carbene complexes, metathesis, and polymerization, has been divided into two chapters in view of the expanded research efforts that have occurred over the last ten years in these areas. Chapter 10 in the second edition now focuses on carbene complexes, and Chapter 11 covers aspects of metathesis and polymerization reactions including an expanded discussion of Schrock and Grubbs metal carbene catalysts. Chapter 12 (Chapter 11, first edition) is a substantially-revised treatment of the applications of organometallic chemistry to organic synthesis. This chapter offers an extensive discussion of asymmetric hydrogenation and oxidation methodology as well as a greatly revised treatment of Tsuji-Trost allylation, the Heck reaction, and palladium-catalyzed cross-coupling reactions. The latter topic includes discussion of the Stille, Suzuki, Sonogashira, and Negishi cross-couplings, reactions that have had a profound impact on the synthesis of anti-tumor compounds and other potent pharmaceuticals. In addition, the authors have included more molecular model illustrations, and introduced more modern examples and medical/medicinal applications across the text. They have included 53% more in-chapter exercises and end-of-chapter problems (23% more exercises and 81% more EOCs). The second edition has been extensively updated to include current literature (62% more references to the chemical literature).

A Dictionary of Freemasonry

Discover the remarkable history of the most widely known secretive fraternal organization in A Dictionary of Freemasonry. This comprehensive and convenient one-volume text includes a thorough encyclopedia, full dictionary of symbols, and over 300 beautiful nineteenth-century engravings. The 600-year-old brotherhood of Freemasons is based on a tradition over 3,000 years old. Robert Macoy, a member of the order, uses the resources of the Fraternity available to him, to discern the truth from a myriad of half-truths, rumors, superstitions, and interpretations. He presents the rise and evolution of Freemasonry and its kindred association both ancient and modern. The "General History of Freemasonry," which begins this volume, is a fascinating introduction to a very complicated subject often fraught with vagaries. The two A-to-Z reference works that follow (one an encyclopedia with listings of terms, people, places, and events that make up the extensive history of the Freemasons, and the other a dictionary of symbols) contribute to making this a very complete sourcebook on Freemasonry. From Aaron, the Abelites, and the All-Seeing Eye to the Year of Masonry, Zenith, and the Rite of Zinnendorf, this is a remarkably accessible book on a subject that runs through the course of human history. Robert Macoy (1815-1895), well known for his role in establishing the Order of the Eastern Star, earned the 33° and held many important positions with the Fraternity, such as past Deputy Grand Master and Grand Secretary of New York, as well as Grand Recorder of the Grand Commandery of New York. Founder of one of the largest Masonic publishing, regalia, and supply houses, he published extensively on Freemasonry and authored a number of books, including The Book of the Lodge and True Masonic Guide.

The Inflamed Mind

A radical new approach to depression

Hachette UK Depression will be the single biggest cause of disability worldwide, in the next 20 years. But treatment for it has not changed much in the last three decades. In the realm of psychiatry, time has apparently stood still... until now. In this game-changing book, Professor Edward Bullmore reveals the breakthrough new science on the link between mental depression and physical inflammation. He explains how and why mental disorders can have their roots in the immune system and explores a whole new way of looking at how mind, brain and body all work together in a sometimes misguided effort to help us survive in a hostile world.

Peptide Analysis Protocols

Humana As the technology base for the preparation of increasingly complex peptides has improved, the methods for their purification and analysis have also been improved and supplemented. Peptide science routinely utilizes tools and techniques that are common to organic chemistry, protein chemistry, biophysical chemistry, enzymology, pharmacology, and molecular biology. A fundamental understanding of each of these areas is essential for interpreting all of the data that a peptide scientist may see. The purpose of Peptide Analysis Protocols is to provide the novice with sufficient practical information necessary to begin developing useful analysis and separation skills. Understanding and developing these skills will ultimately yield a scientist with broadened knowledge and good problem-solving abilities. Although numerous books that address different specialties, such as HPLC, FAB-MS, CE, and NMR, have been written, until now no single volume has reviewed all of these techniques with a focus on "getting started" in separation and analysis of peptides. This volume will also provide those who already possess practical knowledge of the more advanced aspects of peptide science with detailed applications for each of these protocols. Because the chapters have been written by researchers active in each of the fields that they discuss, a great deal of information on and insight into solution of real problems that they have encountered is presented. Exemplary results are clearly demonstrated and discussed. For more advanced investigations, supplementary experiments are often suggested.

Encyclopedia of Espionage, Intelligence, and Security: A-E

Encyclopedia of espionage, intelligence and security (GVRL)