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KEY=WELCOME - SYLVIA WALLS

NANOPARTICLE-MEDIATED IMMUNOTHERAPY

Springer Nature This book is intended to serve as an authoritative reference source for a broad audience involved in the research, teaching, learning, and practice of nanotechnology in immunotherapy. The combination of nanotechnology and immunotherapy is recognized as a promising treatment modality. In particular, the use of nanoparticles in immunotherapy has attracted increased attention for their unique efficacy and specificity in cancer treatment. A wide variety of nanoparticles, such as polymeric and liposomal nanosystems, carbon nanotubes, and gold nanoparticles have provided important nanoplatforms for immunotherapeutic approaches. They have been shown to improve delivery and efficacy of immunotherapeutic agents such as vaccines or adjuvants. Nanoparticle-mediated thermal therapy has demonstrated the effectiveness for precise tumor cell ablation, radio-sensitization of hypoxic regions, enhancement of drug delivery, activation of thermosensitive agents, and enhancement of the immune system. Plasmonic nanoparticles are a special type of metallic nanoparticles that has received great interest due to their enhanced optical and electromagnetic properties and their superior capacity to convert photon energy into heat for selective photothermal therapy at the nanoscale level. Nanoparticle sizes can also be controlled such that they accumulate preferentially in tumors due to the enhanced permeability and retention effect of tumor vasculature. Various nanosystems such as gold nanoparticles have also been shown to stimulate the immune system. Immunotherapies could thus synergistically benefit from the combination with targeted nanoparticle-mediated photothermal therapies, especially when hyperthermia around immune-checkpoint inhibitors in the tumor bed is combined with precise thermal ablation of cancer cells. Of great importance is the possibility that such an approach can induce long-term immunological memory that can provide protection against tumor recurrence long after treatment of the initial tumors, like an anticancer vaccine. Nanoparticle-mediated immunotherapy could lead to an entirely new treatment paradigm that challenges traditional surgical resection approaches for many cancers and metastases.

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE, SMART GRID AND SMART CITY APPLICATIONS

AISGSC 2019

Springer Nature Due to the complexity, and heterogeneity of the smart grid and the high volume of information to be processed, artificial intelligence techniques and computational intelligence appear to be some of the enabling technologies for its future development and success. The theme of the book is "Making pathway for the grid of future" with the emphasis on trends in Smart Grid, renewable interconnection issues, planning-operation-control and reliability of grid, real time monitoring and protection, market, distributed generation and power distribution issues, power electronics applications, computer-IT and signal processing applications, power apparatus, power engineering education and industry-institute collaboration. The primary objective of the book is to review the current state of the art of the most relevant artificial intelligence techniques applied to the different issues that arise in the smart grid development.

ELECTRONIC SYSTEMS AND INTELLIGENT COMPUTING

PROCEEDINGS OF ESIC 2020

Springer Nature This book presents selected, high-quality research papers from the International Conference on Electronic Systems and Intelligent Computing (ESIC 2020), held at NIT Yupia, Arunachal Pradesh, India, on 2 - 4 March 2020. Discussing the latest challenges and solutions in the field of smart computing, cyber-physical systems and intelligent technologies, it includes papers based on original theoretical, practical and experimental simulations, developments, applications, measurements, and testing. The applications and solutions featured provide valuable reference material for future product

development.

PROCEEDING OF THE SECOND INTERNATIONAL CONFERENCE ON MICROELECTRONICS, COMPUTING & COMMUNICATION SYSTEMS (MCCS 2017)

Springer The volume presents high quality papers presented at the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017). The book discusses recent trends in technology and advancement in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes original papers based on original theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as a good reference material for future works.

TWELVE YEARS A SLAVE

Prabhat Prakashan "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

COMPUTER VISION AND ROBOTICS

PROCEEDINGS OF CVR 2021

Springer Nature This book consists of a collection of the high-quality research articles in the field of computer vision and robotics which are presented in the International Conference on Computer Vision and Robotics (CVR 2021), organized by BBD University Lucknow, India, during 7–8 August 2021. The book discusses applications of computer vision and robotics in the fields like medical science, defence, and smart city planning. The book presents recent works from researchers, academicians, industry, and policy makers.

ANATOMY FOR UROLOGIC SURGEONS IN THE DIGITAL ERA

SCANNING, MODELLING AND 3D PRINTING

Springer Nature

ADVANCED GREENHOUSE HORTICULTURE

NEW TECHNOLOGIES AND CULTIVATION PRACTICES

MDPI Greenhouse horticulture is one of the most intensive agricultural systems, focusing on the production of high-value products. This book presents current research findings that cover a wide range of new technologies and novel agricultural practices, which are preconditions for successful production in a very competitive global environment.

MEASURING SOCIAL WELFARE

AN INTRODUCTION

Oxford University Press, USA Disputes over government policies rage in a number of areas. From taxation to climate change, from public finance to risk regulation, and from health care to infrastructure planning, advocates debate how policies affect multiple dimensions of individual well-being, how these effects balance against each other, and how trade-offs between overall well-being and inequality should be resolved. How to measure and balance well-being gains and losses is a vexed issue. Matthew D. Adler advances the debate by introducing the social welfare function (SWF) framework and demonstrating how it can be used as a powerful tool for evaluating governmental policies. The framework originates in welfare economics and in philosophical scholarship regarding individual well-being, ethics, and distributive justice. It has three core components: a well-being measure, which translates each of the possible policy outcomes into an array of interpersonally comparable well-being numbers, quantifying how well off each person in the population would be in that outcome; a rule for ranking outcomes thus described; and an uncertainty module, which orders policies understood as

probability distributions over outcomes. The SWF framework is a significant improvement compared to cost-benefit analysis (CBA), which quantifies policy impacts in dollars, is thereby biased towards the rich, and is insensitive to the distribution of these monetized impacts. The SWF framework, by contrast, uses an unbiased measure of well-being and allows the policymaker to consider both efficiency (total well-being) and equity (the distribution of well-being). Because the SWF framework is a fully generic methodology for policy assessment, Adler also discusses how it can be implemented to inform government policies. He illustrates it through a detailed case study of risk regulation, contrasting the implications of results of SWF and CBA. This book provides an accessible, yet rigorous overview of the SWF approach that can inform policy-makers and students.

AN ETYMOLOGICAL DICTIONARY OF THE ENGLISH LANGUAGE

MATERIALS CHEMISTRY

Springer The 3rd edition of this successful textbook continues to build on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association (TAA). Materials Chemistry addresses inorganic-, organic-, and nano-based materials from a structure vs. property treatment, providing a suitable breadth and depth coverage of the rapidly evolving materials field — in a concise format. The 3rd edition offers significant updates throughout, with expanded sections on sustainability, energy storage, metal-organic frameworks, solid electrolytes, solvothermal/microwave syntheses, integrated circuits, and nanotoxicity. Most appropriate for Junior/Senior undergraduate students, as well as first-year graduate students in chemistry, physics, or engineering fields, Materials Chemistry may also serve as a valuable reference to industrial researchers. Each chapter concludes with a section that describes important materials applications, and an updated list of thought-provoking questions.

DORLAND'S DICTIONARY OF MEDICAL ACRONYMS AND ABBREVIATIONS E-BOOK

Elsevier Health Sciences Medical acronyms and abbreviations offer convenience, but those countless shortcuts can often be confusing. Now a part of the popular Dorland's suite of products, this reference features thousands of terms from across various medical specialties. Its alphabetical arrangement makes for quick reference, and expanded coverage of symbols ensures they are easier to find. Effective communication plays an important role in all medical settings, so turn to this trusted volume for nearly any medical abbreviation you might encounter. Symbols section makes it easier to locate unusual or seldom-used symbols. Convenient alphabetical format allows you to find the entry you need more intuitively. More than 90,000 entries and definitions. Many new and updated entries including terminology in expanding specialties, such as Nursing; Physical, Occupational, and Speech Therapies; Transcription and Coding; Computer and Technical Fields. New section on abbreviations to avoid, including Joint Commission abbreviations that are not to be used. Incorporates updates suggested by the Institute for Safe Medication Practices (ISMP).

HUMAN STRUCTURE

Harvard University Press Human Structure is an innovative introduction to human gross anatomy with a twofold approach to view the basics of anatomy from a broad scientific perspective and to explain the facts of form and function in terms and concepts that minimize the usual confusion and anxiety of beginning anatomy studies. Functional, comparative, and developmental anatomy are ingeniously woven into a single explanatory perspective, presenting human anatomy as an intelligible whole rather than as a heap of disconnected facts to be memorized. As a result, Human Structure is suitable not only for first-year medical students but also for undergraduates in premedical or biological science courses, for students in paramedical or college-level nursing programs, and indeed for anyone seeking a refresher course in human anatomy. The book begins with the generalized segmental organization characteristic of vertebrates and then examines the most obviously segmented parts of the human body: the bones, muscles, vessels, and nerves of the trunk between the neck and the pelvis. The book progresses through regions where the simple organizational plan has undergone more and more radical modifications and ends with the ancient and extreme specializations found in the head. At each step, the authors widen our intellectual understanding of how these modifications have been imposed, onto-genetically or phylogenetically, upon simpler precursors. The prose is personal and literate, peppered with inventive elucidations of concepts and accompanied by a wealth of illustrations designed for conceptual clarity and ease of visualization. The level of presentation has been finely tuned, over several years of class testing, to enhance its pedagogical effectiveness in human anatomy courses.

UNSOLVED PROBLEMS IN MATHEMATICAL SYSTEMS AND CONTROL THEORY

Princeton University Press This book provides clear presentations of more than sixty important unsolved problems in mathematical systems and control theory. Each of the problems included here is proposed by a leading expert and set forth in an accessible manner. Covering a wide range of areas, the book will be an ideal reference for anyone interested in the latest developments in the field, including specialists in applied mathematics, engineering, and computer science. The book consists of ten parts representing various problem areas, and each chapter sets forth a different problem

presented by a researcher in the particular area and in the same way: description of the problem, motivation and history, available results, and bibliography. It aims not only to encourage work on the included problems but also to suggest new ones and generate fresh research. The reader will be able to submit solutions for possible inclusion on an online version of the book to be updated quarterly on the Princeton University Press website, and thus also be able to access solutions, updated information, and partial solutions as they are developed.

DOMESTIC BUILDING SERVICES COMPLIANCE GUIDE (FOR PART L 2013 EDITION)

Riba Publications Limited This guide is referred to in the 2013 edition of Approved Document L1A and the 2010 edition of Approved Document L1B (as amended in 2013) for dwellings as a source of guidance on complying with Building Regulations requirements for space heating and hot water systems, mechanical ventilation, comfort cooling, fixed internal and external lighting and renewable energy systems.

INTERNAL COMBUSTION ENGINES AND POWERTRAIN SYSTEMS FOR FUTURE TRANSPORT 2019

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INTERNAL COMBUSTION ENGINES AND POWERTRAIN SYSTEMS FOR FUTURE TRANSPORT, (ICEPSFT 2019), DECEMBER 11-12, 2019, BIRMINGHAM, UK

CRC Press With the changing landscape of the transport sector, there are also alternative powertrain systems on offer that can run independently of or in conjunction with the internal combustion (IC) engine. This shift has actually helped the industry gain traction with the IC Engine market projected to grow at 4.67% CAGR during the forecast period 2019-2025. It continues to meet both requirements and challenges through continual technology advancement and innovation from the latest research. With this in mind, the contributions in Internal Combustion Engines and Powertrain Systems for Future Transport 2019 not only cover the particular issues for the IC engine market but also reflect the impact of alternative powertrains on the propulsion industry. The main topics include: • Engines for hybrid powertrains and electrification • IC engines • Fuel cells • E-machines • Air-path and other technologies achieving performance and fuel economy benefits • Advances and improvements in combustion and ignition systems • Emissions regulation and their control by engine and after-treatment • Developments in real-world driving cycles • Advanced boosting systems • Connected powertrains (AI) • Electrification opportunities • Energy conversion and recovery systems • Modified or novel engine cycles • IC engines for heavy duty and off highway Internal Combustion Engines and Powertrain Systems for Future Transport 2019 provides a forum for IC engine, fuels and powertrain experts, and looks closely at developments in powertrain technology required to meet the demands of the low carbon economy and global competition in all sectors of the transportation, off-highway and stationary power industries.

BIOMARKERS

A PRAGMATIC BASIS FOR REMEDIATION OF SEVERE POLLUTION IN EASTERN EUROPE

Springer Science & Business Media Many areas of Eastern Europe have been polluted to an extent unknown in the West. Four such sites - Kola Peninsula, northern Bohemia, upper Vistula Basin, and Katowice - have been identified and detailed accounts of the pollution at these sites are given. The current status of the use of biomarkers in hazard assessment is given by several scientists from NATO countries. Four working groups, comprising scientists working on the polluted sites and western scientists with expertise in biomarkers, examine the use of biomarkers to assess the environmental health of each of these areas and make recommendations on the future direction of remedial action in these areas.

PROCEEDINGS OF 2ND INTERNATIONAL CONFERENCE ON COMMUNICATION, COMPUTING AND NETWORKING

ICCCN 2018, NITTTR CHANDIGARH, INDIA

Springer The book provides insights from the 2nd International Conference on Communication, Computing and Networking organized by the Department of Computer Science and Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India on March 29-30, 2018. The book includes contributions in which researchers, engineers, and academicians as well as industrial professionals from around the globe presented their research findings and development activities in the field of Computing Technologies, Wireless Networks, Information Security, Image Processing and Data Science. The book provides opportunities for the readers to explore the literature, identify gaps in the existing works and propose new ideas for research.

COMPUTATIONAL INTELLIGENCE AND PREDICTIVE ANALYSIS FOR MEDICAL SCIENCE

A PRAGMATIC APPROACH

Walter de Gruyter GmbH & Co KG This book uncovers stakes and possibilities offered by Computational Intelligence and Predictive Analytics to Medical Science. The main focus is on data technologies, classification, analysis and mining, information retrieval, and in the algorithms needed to elaborate the informations. A section with use cases and applications follows the two main parts of the book, respectively dedicated to the foundations and techniques of the discipline.

BLACK BODIES, WHITE GOLD

ART, COTTON, AND COMMERCE IN THE ATLANTIC WORLD

Duke University Press In *Black Bodies, White Gold* Anna Arabindan-Kesson uses cotton, a commodity central to the slave trade and colonialism, as a focus for new interpretations of the way art, commerce, and colonialism were intertwined in the nineteenth-century Atlantic world. In doing so, Arabindan-Kesson models an art historical approach that makes the histories of the Black diaspora central to nineteenth-century cultural production. She traces the emergence of a speculative vision that informs perceptions of Blackness in which artistic renderings of cotton—as both commodity and material—became inexorably tied to the monetary value of Black bodies. From the production and representation of “negro cloth”—the textile worn by enslaved plantation workers—to depictions of Black sharecroppers in photographs and paintings, Arabindan-Kesson demonstrates that visibility was the mechanism through which Blackness and cotton became equated as resources for extraction. In addition to interrogating the work of nineteenth-century artists, she engages with contemporary artists such as Hank Willis Thomas, Lubaina Himid, and Yinka Shonibare CBE RA, who contend with the commercial and imperial processes shaping constructions of Blackness and meanings of labor.

THE LAST MUSLIM CONQUEST

THE OTTOMAN EMPIRE AND ITS WARS IN EUROPE

Princeton University Press "The Last Muslim Conquest chronicles the emergence of the Ottoman dynasty and its conquests in Europe, offering a new synthesis of the Ottoman impact on early modern Europe. In telling the story of conquest and imperial rivalry, the book introduces myriad characters, from sultans, kings, popes, generals, and admirals, to lesser-known but equally colorful viziers, frontier governors, envoys, interpreters, spies, and pirates. The narrative brings to light the characteristics of Ottoman strategy and statecraft, challenging long-held views. Historian Gábor Ágoston rejects the "clash of civilizations" narrative by demonstrating the multi-ethnic and multi-confessional character of the empire and its entanglements in European politics. He examines the varied methods of Ottoman conquest, including dynastic marriages, religious accommodation, and the incorporation of the conquered people into the Ottoman military and administration. But Ágoston also rebuffs more recent distortions of Ottoman history that have turned Ottoman sultans into Renaissance princes and blurred the cultural fault lines between Islam and Christendom. He argues that while the Ottomans were an integral part of Europe and, in many ways, a "European" empire, theirs was a polity principally shaped by Turco-Iranian and Islamic models. He also demonstrates how religion - both Ottoman holy wars and Christian crusades - remained paramount for legitimating policies and mobilizing one's supporters for conquest and defense. Chapters on military capabilities, frontier management, warfare, and diplomacy offer a new explanation of the gradual shift in power between the Ottomans and their European rivals, reframing the old story of Ottoman decline"--

RECENT RESEARCH ON GEOMORPHOLOGY, SEDIMENTOLOGY, MARINE GEOSCIENCES AND GEOCHEMISTRY

PROCEEDINGS OF THE 2ND SPRINGER CONFERENCE OF THE ARABIAN JOURNAL OF GEOSCIENCES (CAJG-2), TUNISIA 2019

Springer Nature This edited book is based on the papers accepted for presentation during the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), Tunisia, in 2019. Major subjects treated in the book include geomorphology, sedimentology, and geochemistry. The book presents an updated unique view in conjugating field studies and modeling to better quantify the process-product binomial unusual in geosciences. In the geomorphology section, 24 papers deal with topics related to fault slip and incision rates, soil science, landslides and debris flows, coastal processes, and geoarchaeology, and geoheritage. Under the sedimentology section, 34 papers including stratigraphy, and environmental, tectonic, and diagenetic processes, together with evolutionary, biostratigraphic, and paleo-environmental significance of paleontology are presented. Additionally, this section also contains papers on marine geosciences, from molecular proxies related to climate to geophysical surveys. Last but not least, the third section on geochemistry is composed of 26 papers that are focused on sedimentary geochemistry and mineralogical characterization, magmatic and metamorphic processes and products, and the origin and exploration of mineral deposits. This book resumes the current situation related to the abovementioned topics mainly in the Mediterranean realm. The volume book is of interest to all researchers, practitioners, and students in the fields of geomorphology, sedimentology, and geochemistry, as well as those engaged in environmental geosciences, soil science,

stratigraphy and paleontology, geoarcheology and geoheritage, marine geosciences, petrology, metallogenesis, and mineral deposits.

SUMMARY OF AWARDS

GENOMIC SIGNAL PROCESSING

Princeton University Press Genomic signal processing (GSP) can be defined as the analysis, processing, and use of genomic signals to gain biological knowledge, and the translation of that knowledge into systems-based applications that can be used to diagnose and treat genetic diseases. Situated at the crossroads of engineering, biology, mathematics, statistics, and computer science, GSP requires the development of both nonlinear dynamical models that adequately represent genomic regulation, and diagnostic and therapeutic tools based on these models. This book facilitates these developments by providing rigorous mathematical definitions and propositions for the main elements of GSP and by paying attention to the validity of models relative to the data. Ilya Shmulevich and Edward Dougherty cover real-world situations and explain their mathematical modeling in relation to systems biology and systems medicine. Genomic Signal Processing makes a major contribution to computational biology, systems biology, and translational genomics by providing a self-contained explanation of the fundamental mathematical issues facing researchers in four areas: classification, clustering, network modeling, and network intervention.

CURRENT TOPICS IN COMPUTATIONAL MOLECULAR BIOLOGY

MIT Press A survey of current topics in computational molecular biology. Computational molecular biology, or bioinformatics, draws on the disciplines of biology, mathematics, statistics, physics, chemistry, computer science, and engineering. It provides the computational support for functional genomics, which links the behavior of cells, organisms, and populations to the information encoded in the genomes, as well as for structural genomics. At the heart of all large-scale and high-throughput biotechnologies, it has a growing impact on health and medicine. This survey of computational molecular biology covers traditional topics such as protein structure modeling and sequence alignment, and more recent ones such as expression data analysis and comparative genomics. It combines algorithmic, statistical, database, and AI-based methods for studying biological problems. The book also contains an introductory chapter, as well as one on general statistical modeling and computational techniques in molecular biology. Each chapter presents a self-contained review of a specific subject. Not for sale in China, including Hong Kong.

AIR POLLUTION MODELING AND ITS APPLICATION XVI

Springer Science & Business Media This volume covers the latest scientific developments in the real world applications of pollution modeling. Topics covered include: the role of atmospheric models in air pollution policy and abatement strategies; integrated regional modelling; global and long-range transport; aerosols as atmospheric contaminants; model assessment and verification; and application of new concepts in different regions of the world.

PUNISHING PLACES

THE GEOGRAPHY OF MASS IMPRISONMENT

Univ of California Press Punishing Places applies a unique spatial analysis to mass incarceration in the United States. It demonstrates that our highest imprisonment rates are now in small cities, suburbs, and rural areas. Jessica Simes argues that mass incarceration should be conceptualized as one of the legacies of U.S. racial residential segregation, but that a focus on large cities has diverted vital scholarly and policy attention away from communities affected most by mass incarceration today. This book presents novel measures for estimating the community-level effects of incarceration using spatial, quantitative, and qualitative methods. This analysis has broad and urgent implications for policy reforms aimed at ameliorating the community effects of mass incarceration and promoting alternatives to the carceral system.

HISTORY ON THE RUN

SECRECY, FUGITIVITY, AND HMONG REFUGEE EPISTEMOLOGIES

Duke University Press During its secret war in Laos (1961-1975), the United States recruited proxy soldiers among the Hmong people. Following the war, many of these Hmong soldiers migrated to the United States with refugee status. In History on the Run Ma Vang examines the experiences of Hmong refugees in the United States to theorize refugee histories and secrecy, in particular those of the Hmong. Vang conceptualizes these histories as fugitive histories, as they move and are carried by people who move. Charting the incomplete archives of the war made secret through redacted US state

documents, ethnography, film, and literature, Vang shows how Hmong refugees tell their stories in ways that exist separately from narratives of U.S. empire and that cannot be traditionally archived. In so doing, Vang outlines a methodology for writing histories that foreground refugee epistemologies despite systematic attempts to silence those histories.

GRAPHIC DESIGN FOR THE ELECTRONIC AGE

"A Xerox Press book." Includes index.

PROGRESS IN VLSI DESIGN AND TEST

16TH INTERNATIONAL SYMPOSIUM ON VLSI DESIGN AND TEST, VDAT 2012, SHIPUR, INDIA, JULY 1-4, 2012, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 16th International Symposium on VLSI Design and Test, VDAT 2012, held in Shibpur, India, in July 2012. The 30 revised regular papers presented together with 10 short papers and 13 poster sessions were carefully selected from 135 submissions. The papers are organized in topical sections on VLSI design, design and modeling of digital circuits and systems, testing and verification, design for testability, testing memories and regular logic arrays, embedded systems: hardware/software co-design and verification, emerging technology: nanoscale computing and nanotechnology.

SYNCHRONOUS RELUCTANCE MACHINES

ANALYSIS, OPTIMIZATION AND APPLICATIONS

IET The comprehensive reference on synchronous reluctance machines, which offer high power density at low cost and support the electrification in the transport sector. This book, written by top academic and industry experts, covers all topics required to design these machines.

SWITCHED-CAPACITOR DC-DC CONVERTERS

Inductorless dc-dc converters are used to provide the proper operating bias conditions for a range of circuits, including important applications: programming circuits for EEPROM non-volatile memory chips, low-voltage micro-power circuits, and circuits regulating the voltage provided by batteries needed in portable devices such as cellular phones.

NEW WORD-ANALYSIS

BoD - Books on Demand [Reproduction of the original: New Word-Analysis by William Swinton](#)

ANALYTICAL PYROLYSIS

Elsevier Analytical Pyrolysis presents the Proceedings of the Third International Symposium on Analytical Pyrolysis, held in Amsterdam on September 7-9, 1976. It looks at newly emergent techniques in analytical pyrolysis, including pyrolysis mass spectrometry, gas chromatography, thin-layer chromatography, and pyrolysis-gas liquid chromatography. The book also covers topics ranging from automation and microbiology to forensic science and pharmacology, reproducibility and specificity, biochemistry, laser-induced pyrolysis, pyrolytic reaction mechanisms, and polymers. Comprised of 50 chapters, this book begins with a discussion of automatic analysis of tire rubber blends using computer-linked pyrolysis gas chromatography, thermal procedures in coupling with thin-layer chromatography, the role of pyrolysis-gas liquid chromatography in biomedical studies, and the identification of microorganisms by pyrolysis gas-liquid chromatography. It then examines forensic applications of analytical pyrolysis techniques, structure and degradation behavior of synthetic polymers using pyrolysis in combination with field ion mass spectrometry, determination of polysaccharides in fulvic acids by pyrolysis gas chromatography, and application of Curie-point pyrolysis mass spectrometry in fungal taxonomy. The reader is also introduced to pyrolysis mass spectrometry of model compounds labeled with stable isotopes, the use of pyrolysis/gas chromatography to determine the quality of porous polymers of styrene cross-linked with divinyl benzene, and application of pyrohydrolysis for a rapid and accurate determination of halides in silicate rocks and minerals. This volume will benefit students, researchers, chemists, and scientists working in the field of analytical pyrolysis.

QUANTUM COMMUNICATIONS AND CRYPTOGRAPHY

CRC Press All current methods of secure communication such as public-key cryptography can eventually be broken by faster computing. At the interface of physics and computer science lies a powerful solution for secure communications: quantum cryptography. Because eavesdropping changes the physical nature of the information, users in a quantum exchange can easily detect eavesdroppers. This allows for totally secure random key distribution, a central requirement for use of the one-time pad. Since the one-time pad is theoretically proven to be undecipherable, quantum cryptography is the key to perfect secrecy. Quantum Communications and Cryptography is the first comprehensive review of the past, present, and potential developments in this dynamic field. Leading expert contributors from around the world discuss the scientific foundations, experimental and theoretical developments, and cutting-edge technical and engineering advances in quantum communications and cryptography. The book describes the engineering principles and practical implementations in a real-world metropolitan network as well as physical principles and experimental results of such technologies as entanglement swapping and quantum teleportation. It also offers the first detailed treatment of quantum information processing with continuous variables. Technologies include both free-space and fiber-based communications systems along with the necessary protocols and information processing approaches. Bridging the gap between physics and engineering, Quantum Communications and Cryptography supplies a springboard for further developments and breakthroughs in this rapidly growing area.

ACS STYLE GUIDE

EFFECTIVE COMMUNICATION OF SCIENTIFIC INFORMATION

Oxford University Press In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

INTRODUCTION TO SMART ANTENNAS

Morgan & Claypool Publishers As the growing demand for mobile communications is constantly increasing, the need for better coverage, improved capacity, and higher transmission quality rises. Thus, a more efficient use of the radio spectrum is required. Smart antenna systems are capable of efficiently utilizing the radio spectrum and is a promise for an effective solution to the present wireless systems problems while achieving reliable and robust high-speed high-data-rate transmission. The purpose of this book is to provide the reader a broad view of the system aspects of smart antennas. In fact, smart antenna systems comprise several critical areas such as individual antenna array design, signal processing algorithms, space-time processing, wireless channel modeling and coding, and network performance. In this book we include an overview of smart antenna concepts, introduce some of the areas that impact smart antennas, and examine the influence of interaction and integration of these areas to Mobile Ad-Hoc Networks. In addition, the general principles and major benefits of using space-time processing are introduced, especially employing multiple-input multiple-output (MIMO) techniques."

DICTIONARY OF MEDICAL ACRONYMS & ABBREVIATIONS

W B Saunders Company

MECHANICAL ENGINEERING AND MATERIALS

Trans Tech Publications Ltd Volume is indexed by Thomson Reuters CPCI-S (WoS). The present papers, drawn from both academia and industry, reflect the international flavour of this event; devoted to the topics of: Materials Science and Engineering, Materials Properties, Measuring Methods and Applications, Methodology of Research and Analysis and Modelling, Materials Manufacturing and Processing, Nanoscience and Nanotechnology, Mechanical Engineering, Design and Manufacturing, etc.

BLACK PERFORMANCE THEORY

Duke University Press Black performance theory is a rich interdisciplinary area of study and critical method. This collection of new essays by some of its pioneering thinkers—many of whom are performers—demonstrates the breadth, depth, innovation, and critical value of black performance theory. Considering how blackness is imagined in and through performance, the contributors address topics including flight as a persistent theme in African American aesthetics, the circulation of minstrel tropes in Liverpool and in Afro-Mexican settlements in Oaxaca, and the reach of hip-hop politics as people around the world embrace the music and dance. They examine the work of contemporary choreographers Ronald K. Brown and Reggie Wilson, the ways that African American playwrights translated the theatricality of lynching to the stage, the ecstatic music of Little Richard, and Michael Jackson's performance in the documentary *This Is It*. The collection includes several essays that exemplify the performative capacity of writing, as well as discussion of a project that re-creates seminal hip-hop album covers through tableaux vivants. Whether deliberating on the tragic mulatta, the trickster figure Anansi, or the sonic futurism of Nina Simone and Adrienne Kennedy, the essays in this collection signal the vast untapped critical and creative resources of black performance theory. Contributors: Melissa Blanco Borelli, Daphne A. Brooks, Soyica Diggs Colbert, Thomas F. DeFrantz, Nadine George-Graves, Anita Gonzalez, Rickerby Hinds, Jason King, D. Soyini Madison, Koritha Mitchell, Tavia Nyong'o, Carl Paris, Anna B. Scott, Wendy S. Walters, Hershini Bhana Young