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KEY=K - HARPER ADRIENNE

SALT STRESS, MICROBES, AND PLANT INTERACTIONS: CAUSES AND SOLUTION

VOLUME 1

Springer Nature This book offers an overview of salt stress, which has a devastating effect on the yields of various agricultural crops around the globe. Excessive salts in soil reduce the availability of water, inhibit metabolic processes, and affect nutrient composition, osmotic balance, and hydraulic conductivity. Plants have developed a number of tolerance mechanisms, such as various compatible solutes, polyamines, reactive oxygen species and antioxidant defense mechanisms, ion transport and compartmentalization of injurious ions. The exploitation of genetic variation, use of plant hormones, mineral nutrients, soil microbe interactions, and other mechanical practices are of prime importance in agriculture, and as such have been the subject of multidisciplinary research. Covering both theoretical and practical aspects, the book provides essential physiological, ecological, biochemical, environmental and molecular information as well as perspectives for future research. It is a valuable resource for students, teachers and researchers and anyone interested in agronomy, ecology, stress physiology, environmental science, crop science and molecular biology.

WATER SOLUBLE POLYMERS

SOLUTION PROPERTIES AND APPLICATIONS

Springer Science & Business Media This volume contains a series of papers originally presented at the symposium on Water Soluble Polymers: Solution Properties and Applications, sponsored by the Division of Colloids and Surface Chemistry of the American Chemical Society. The symposium took place in Las Vegas City, Nevada on 9 to 11th September, 1997 at the 214th American Chemical Society National Meeting. Recognized experts in their - spective fields were invited to speak. There was a strong attendance from academia, g- ernment, and industrial research centers. The purpose of the symposium was to present and discuss recent developments in the solution properties of water soluble polymers and their applications in aqueous systems. Water soluble polymers find applications in a number of fields of which the following may be worth mentioning: cosmetics, detergent, oral care, industrial water treatment, g- thermal, wastewater treatment, water purification and reuse, pulp and paper production, sugar refining, and many more. Moreover, water soluble polymers play vital role in the oil industry, especially in enhanced oil recovery. Water soluble polymers are also used in ag- culture and controlled release pharmaceutical applications. Therefore, a fundamental kno- edge of solution properties of these polymers is essential for most industrial scientists. An understanding of the basic phenomena involved in the application of these polymers, such as adsorption and interaction with different substrates (i. e. , tooth enamel, hair, reverse - mosis membrane, heat exchanger surfaces, etc.) is of vital importance in developing high performance formulations for achieving optimum efficiency of the system.

INTELLIGENT DATA SECURITY SOLUTIONS FOR E-HEALTH APPLICATIONS

Academic Press E-health applications such as tele-medicine, tele-radiology, tele-ophthalmology, and tele-diagnosis are very promising and have immense potential to improve global healthcare. They can improve access, equity, and quality through the connection of healthcare facilities and healthcare professionals, diminishing geographical and physical barriers. One critical issue, however, is related to the security of data transmission and access to the technologies of medical information. Currently, medical-related identity theft costs billions of dollars each year and altered medical information can put a person's health at risk through misdiagnosis, delayed treatment or incorrect prescriptions. Yet, the use of hand-held devices for storing, accessing, and transmitting medical information is outpacing the privacy and security protections on those devices. Researchers are starting to develop some imperceptible marks to ensure the tamper-proofing, cost effective, and guaranteed originality of the medical

records. However, the robustness, security and efficient image archiving and retrieval of medical data information against these cyberattacks is a challenging area for researchers in the field of e-health applications. Intelligent Data Security Solutions for e-Health Applications focuses on cutting-edge academic and industry-related research in this field, with particular emphasis on interdisciplinary approaches and novel techniques to provide security solutions for smart applications. The book provides an overview of cutting-edge security techniques and ideas to help graduate students, researchers, as well as IT professionals who want to understand the opportunities and challenges of using emerging techniques and algorithms for designing and developing more secure systems and methods for e-health applications. Investigates new security and privacy requirements related to eHealth technologies and large sets of applications Reviews how the abundance of digital information on system behavior is now being captured, processed, and used to improve and strengthen security and privacy Provides an overview of innovative security techniques which are being developed to ensure the guaranteed authenticity of transmitted, shared or stored data/information

INTERNET OF THINGS

ENERGY, INDUSTRY, AND HEALTHCARE

CRC Press Internet of things (IoT) is the connection and communication of physical objects (smart devices) over the internet. In this recent age, people's daily lives are dependent on the internet through their smartphones, tablets, Smart TVs, micro-controllers, Smart Tags, computers, laptops, and cars to name a few. This book discusses different ways to create a better IoT network and/or IoT platforms to improve the efficiency and quality of these products and subsequently their users' lives. In addition, this book provides future research directions in energy, industry, and healthcare, and explores the different applications of IoT and its associated technologies. It provides an overview and explanation of the software architecture, middleware, data processing and data management as well as security, sensors, actuators and algorithms used to create a working IoT platform. The editors then go on to examine IoT networks and platforms as they relate to energy industry including, energy efficiency and management, intelligent energy management, smart energy through blockchain and energy-efficient/aware routing/scheduling challenges and issues. They then explore IoT as it applies to healthcare including biomedical image and signal analysis and disease prediction and diagnosis. Finally the editors examine the prospects and applications of IoT for industry through the concepts of smart industry, including architecture, blockchain, and Industry 4.0. This book is intended for senior undergraduate and graduate students, researchers and industry professionals working on IoT applications and infrastructure. Reviews IoT software architecture and middleware, data processing and management, security, privacy and reliability, architectures, protocols, technologies, algorithms, and smart objects, sensors, and actuators Explores IoT as it applies to energy, including energy efficiency and management, intelligent energy management, smart energy through blockchain and energy-efficient/aware routing/scheduling challenges and issues Examines IoT as it applies to healthcare including biomedical image and signal analysis, and disease prediction and diagnosis Examines IoT as it applies to smart industry including architecture, blockchain, and Industry 4.0 Discusses different ways to create a better IoT network or IoT platform

MEYLER'S SIDE EFFECTS OF DRUGS

THE INTERNATIONAL ENCYCLOPEDIA OF ADVERSE DRUG REACTIONS AND INTERACTIONS

Elsevier Meyler's Side Effects of Drugs: The International Encyclopedia of Adverse Drug Reactions and Interactions, Sixteenth Edition builds on the success of the 15 previous editions, providing an extensively reorganized and expanded resource that now comprises more than 1,500 individual drug articles with the most complete coverage of adverse reactions and interactions found anywhere. Each article contains detailed and authoritative information about the adverse effects of each drug, with comprehensive references to the primary literature, making this a must–have reference work for any academic or medical library, pharmacologist, regulatory organization, hospital dispensary, or pharmaceutical company. The online version of the book provides an unparalleled depth of coverage and functionality by offering convenient desktop access and enhanced features such as increased searchability, extensive internal cross-linking, and fully downloadable and printable full-text, HTML or PDF articles. Enhanced encyclopedic format with drug monographs now organized alphabetically Completely expanded coverage of each drug, with more than 1,500 drug articles and information on adverse reactions and interactions Clearer, systematic organization of information for easier reading, including case histories to provide perspective on each listing Extensive bibliography with over 40,000 references A must–have reference work for any academic or medical library, pharmacologist, regulatory organization, hospital dispensary, or pharmaceutical company

CONTROLLABLE SYNTHESIS AND ATOMIC SCALE REGULATION OF NOBLE METAL CATALYSTS

Springer Nature This book introduces readers to the preparation of metal nanocrystals and its applications. In this book, an important point highlighted is how to design noble metal nanocrystals at the atomic scale for energy conversion and storage. It also focuses on the controllable synthesis of water splitting electrode materials including anodic oxygen evolution reaction (OER) and cathode hydrogen evolution reaction (HER) at the atomic level by defect engineering and synergistic effect. In addition, in-situ technologies and theoretical calculations are utilized to reveal the catalytic mechanisms of catalysts under realistic operating condition. The findings presented not only enrich research in the nano-field, but also support the promotion of national and international cooperation.

INTEGRATING RESEARCH AND PRACTICE IN SOFTWARE ENGINEERING

Springer In this book, the authors highlight recent findings that hold the potential to improve software products or development processes; in addition, they help readers understand new concepts and technologies, and to see what it takes to migrate from old to new platforms. Some of the authors have spent most of their careers in industry, working at the frontiers of practice-based innovation, and are at the same time prominent researchers who have made significant academic contributions. Others work together with industry to test, in industrial settings, the methods they've developed in the lab. The choice of subject and authors represent the key elements of this book. Its respective chapters cover a wide range of topics, from cloud computing to agile development, applications of data science methods, re-engineering of aging applications into modern ones, and business and requirements engineering. Taken together, they offer a valuable asset for practitioners and researchers alike.

THE INTERNET OF DRONES

AI APPLICATIONS FOR SMART SOLUTIONS

CRC Press In recent years, drones have been integrated with the Internet of Things to offer a variety of exciting new applications. Here is a detailed exploration of adapting and implementing Internet of Drones technologies in real-world applications, emphasizing solutions to architectural challenges and providing a clear overview of standardization and regulation, implementation plans, and privacy concerns. The book discusses the architectures and protocols for drone communications, implementing and deploying of 5G-drone setups, security issues, deep learning techniques applied on real-time footage, and more. It also explores some of the varied applications, such as for monitoring and analysis of troposphere pollutants, providing services and communications in smart cities (such as for weather forecasting, communications, transport, safety and protection), for disaster relief management, for agricultural crop monitoring, and more.

SIDE EFFECTS OF DRUGS ANNUAL

A WORLDWIDE YEARLY SURVEY OF NEW DATA IN ADVERSE DRUG REACTIONS

Newnes The Side Effects of Drugs Annual was first published in 1977. It has been continually published since then as a yearly update to the voluminous encyclopedia, Meyler's Side Effects of Drugs. Each new Annual continues to provide clinicians and medical investigators with a reliable and critical yearly survey of new data and trends in the area of adverse drug reactions and interactions. An international team of specialists has contributed to the informative Annual by critically interpreting it and by pointing to whatever is misleading. Provides a critical yearly survey of new data and trends Special reviews in this Annual include, among other topics, epidemiology of the use of ecstasy, paracetamol and the risk of asthma, combination vaccines/multiple immunizations, interactions of herbal medicines with warfarin, and tyrosine kinase inhibitors

HIGH-K MATERIALS IN MULTI-GATE FET DEVICES

CRC Press High-k Materials in Multi-Gate FET Devices focuses on high-k materials for advanced FET devices. It discusses emerging challenges in the engineering and applications and considers issues with associated technologies. It covers the various way of utilizing high-k dielectrics in multi-gate FETs for enhancing their performance at the device as well as circuit level. Provides basic knowledge about FET devices Presents the motivation behind multi-gate FETs, including current and future trends in transistor technologies Discusses fabrication and characterization of high-k materials Contains a comprehensive analysis of the impact of high-k dielectrics utilized in the gate-oxide and the gate-sidewall spacers on the GIDL of emerging multi-gate FET architectures Offers detailed application of high-k materials for advanced FET devices Considers future research directions This book is of value to researchers in materials science, electronics engineering, semiconductor device modeling, IT, and related disciplines studying nanodevices such as FinFET and Tunnel FET and device-circuit codesign issues.

ADVANCED COMPUTING AND COMMUNICATION TECHNOLOGIES

PROCEEDINGS OF THE 10TH ICACCT, 2016

Springer This volume contains selected papers presented at the 10th International Conference on Advanced Computing and Communication Technologies (10th ICACCT 2016), technically sponsored by Institution of Electronics and Telecommunication Engineers (India), held during 18 – 20 November 2016 at Asia Pacific Institute of Information Technology, Panipat, India. The volume reports latest research on a wide range of topics spanning theory, system, applications and case studies in the fields of computing and communication technologies. Topics covered are robotics, computational intelligence encompassing fuzzy logic, neural networks, GA and evolutionary computing, applications, knowledge representation, data encryption, distributed computing, data analytics and visualization, knowledge

representation, wireless sensor networks, MEM sensor design, analog circuit, statistical machine translation, cellular automata and antenna design. The volume has 31 chapters, including an invited paper on swarm robotics, grouped into three parts, viz., Advanced Computing, Communication Technologies, and Micro Electronics and Antenna Design. The volume is directed to researchers and practitioners aspiring to solve practical issues, particularly applications of the theories of computational intelligence, using recent advances in computing and communication technologies.

KINETIC MODELING FOR ENVIRONMENTAL SYSTEMS

BoD – Books on Demand The continuous increase in human activities affects the environment in notable ways; these effects need to be monitored and controlled when appropriate to ensure the sustainability of our lives. Environmental pollution is one of the major problems associated with human activities as a result of routine and accidental releases. Currently, pollution prevention, control, and affected environment remediation receive great attention globally. This attention has led to a continuous increase in research efforts that aim to understand, simulate, and predict important processes that affect pollutant generation and migration. Optimization of chemical and physical reactions within different waste treatment technologies and remediation projects are the focus of many research projects worldwide. This book presents some kinetic models that could be used to support pollution prevention, control, and environmental assessments of human activities.

OFFICIAL GAZETTE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENTS

ADVANCES IN FOOD PROCESSING TECHNOLOGY

Springer This book introduces readers to essential advances in the application of physical processing technology in food processing that have been made in recent years. It analyzes and describes the application of Power Ultrasound, Pulsed Electric Field, Supercritical-CO2, and Infrared Heating in the contexts of food sterilization, extraction, modification, drying and safety control. Covering all aspects of food physical processing, from basic principles to the latest technological developments, it offers a valuable application guide for food engineers and food researchers alike.

SCIENCE ABSTRACTS

PHYSICS ABSTRACTS. SERIES A

BIG DATA ANALYTICS IN THE INSURANCE MARKET

Emerald Group Publishing Big Data Analytics in the Insurance Market is an industry-specific guide to creating operational effectiveness, managing risk, improving financials, and retaining customers. A must for people seeking to broaden their knowledge of big data concepts and their real-world applications, particularly in the field of insurance.

JOURNAL OF THE INDIAN INSTITUTE OF ARCHITECTS

POLYMERS FOR FOOD APPLICATIONS

Springer This book presents an exhaustive review on the use of polymers for food applications. Polymer-based systems for food applications such as: films, foams, nano- and micro-encapsulated, emulsions, hydrogels, prebiotics, 3D food printing, edible polymers for the development of foods for people with special feeding regimes, sensors, among others, have been analyzed in this work.

SENTI-NSETPSO: LARGE-SIZED DOCUMENT-LEVEL SENTIMENT ANALYSIS USING NEUTROSOPHIC SET AND PARTICLE SWARM OPTIMIZATION

Infinite Study In the last decade, opinion mining has been explored by using various machine learning methods. In the literature, document-level sentiment analysis has been majorly dealt with short-sized text only. For large-sized text, document-level sentiment analysis has never been dealt. In this paper, a hybrid framework named as ''Senti-NSetPSO'' is proposed to analyse large-sized text. Senti-NSetPSO comprises of two classifiers: binary and ternary based on hybridization of particle swarm optimization (PSO) with Neutrosophic Set. This method is suitable to classify large-sized text having more than 25 kb of size. Swarm size generated from large text can give a suitable measurement for implementation of PSO convergence. The proposed approach is trained and tested for large-sized text collected from Blitzer, acIIMDb, Polarity and Subjective Dataset. The proposed method establishes a co-relation between sentiment analysis and Neutrosophic Set. On Blitzer, acIIMDb and Polarity dataset, the model acquires satisfactory accuracy by ternary classifier. The accuracy of ternary classifier of the proposed framework shows significant improvement than review paper classifier present in the literature.

THE JOURNAL OF CHEMICAL PHYSICS

RESEARCH IN COMPUTATIONAL MOLECULAR BIOLOGY

26TH ANNUAL INTERNATIONAL CONFERENCE, RECOMB 2022, SAN DIEGO, CA, USA, MAY 22–25, 2022, PROCEEDINGS

Springer Nature

MATERIALS EVALUATION

INTRODUCTION TO ELEMENTARY PARTICLES

HarperCollins Publishers

SOFT COMPUTING FOR PROBLEM SOLVING

PROCEEDINGS OF SOCPROS 2020, VOLUME 2

Springer Nature

CHEMICAL RESEARCH FACULTIES

AN INTERNATIONAL DIRECTORY, 1988

Amer Chemical Society

SEMICONDUCTOR DEVICES AND TECHNOLOGIES FOR FUTURE ULTRA LOW POWER ELECTRONICS

CRC Press This book covers the fundamentals and significance of 2-D materials and related semiconductor transistor technologies for the next-generation ultra low power applications. It provides comprehensive coverage on advanced low power transistors such as NCFETs, FinFETs, TFETs, and flexible transistors for future ultra low power applications owing to their better subthreshold swing and scalability. In addition, the text examines the use of field-effect transistors for biosensing applications and covers design considerations and compact modeling of advanced low power transistors such as NCFETs, FinFETs, and TFETs. TCAD simulation examples are also provided. FEATURES Discusses the latest updates in the field of ultra low power semiconductor transistors Provides both experimental and analytical solutions for TFETs and NCFETs Presents synthesis and fabrication processes for FinFETs Reviews details on 2-D materials and 2-D transistors Explores the application of FETs for biosensing in the healthcare field This book is aimed at researchers, professionals, and graduate students in electrical engineering, electronics and communication engineering, electron devices, nanoelectronics and nanotechnology, microelectronics, and solid-state circuits.

BIBLIOGRAPHY OF SCIENTIFIC PUBLICATIONS OF SOUTH AND SOUTH EAST ASIA

TRENDS IN THE ANALYSIS AND DESIGN OF MARINE STRUCTURES

PROCEEDINGS OF THE 7TH INTERNATIONAL CONFERENCE ON MARINE STRUCTURES (MARSTRUCT 2019, DUBROVNIK, CROATIA, 6-8 MAY 2019)

CRC Press Trends in the Analysis and Design of Marine Structures is a collection of the papers presented at MARSTRUCT 2019, the 7th International Conference on Marine Structures held in Dubrovnik, Croatia, 6-8 May 2019. The MARSTRUCT series of Conferences started in Glasgow, UK in 2007, the second event of the series having taken place in Lisbon, Portugal in March 2009, the third in Hamburg, Germany in March 2011, the fourth in Espoo, Finland in March 2013, the fifth in Southampton, UK in March 2015, and the sixth in Lisbon, Portugal in May 2017. This Conference series specialises in dealing with Ships and Offshore Structures, addressing topics in the fields of: - Methods and Tools for Loads and Load Effects - Methods and Tools for Strength Assessment - Experimental Analysis of Structures - Materials and Fabrication of Structures - Methods and Tools for Structural Design and Optimisation - Structural Reliability, Safety and Environmental Protection. Trends in the Analysis and Design of Marine

Structures is an essential document for academics, engineers and all professionals involved in the area of analysis and design of Ships and Offshore Structures. About the series: The 'Proceedings in Marine Technology and Ocean Engineering' series is devoted to the publication of proceedings of peer-reviewed international conferences dealing with various aspects of 'Marine Technology and Ocean Engineering'. The Series includes the proceedings of the following conferences: the International Maritime Association of the Mediterranean (IMAM) conferences, the Marine Structures (MARSTRUCT) conferences, the Renewable Energies Offshore (RENEW) conferences and the Maritime Technology (MARTECH) conferences. The 'Marine Technology and Ocean Engineering' series is also open to new conferences that cover topics on the sustainable exploration and exploitation of marine resources in various fields, such as maritime transport and ports, usage of the ocean including coastal areas, nautical activities, the exploration and exploitation of mineral resources, the protection of the marine environment and its resources, and risk analysis, safety and reliability. The aim of the series is to stimulate advanced education and training through the wide dissemination of the results of scientific research.

SOFTWARE ENGINEERING AND TESTING

Jones & Bartlett Learning This book is designed for use as an introductory software engineering course or as a reference for programmers. Up-to-date text uses both theory applications to design reliable, error-free software. Includes a companion CD-ROM with source code third-party software engineering applications.

MODELING, DESIGN AND OPTIMIZATION OF MULTIPHASE SYSTEMS IN MINERALS PROCESSING

MDPI Mineral processing deals with complex particle systems with two-, three- and more phases. The modeling and understanding of these systems are a challenge for research groups and a need for the industrial sector. This Special Issue aims to present new advances, methodologies, applications, and case studies of computer-aided analysis applied to multiphase systems in mineral processing. This includes aspects such as modeling, design, operation, optimization, uncertainty analysis, among other topics. The special issue contains a review article and eleven articles that cover different methodologies of modeling, design, optimization, and analysis in problems of adsorption, leaching, flotation, and magnetic separation, among others. Consequently, the topics covered are of interest to readers from academia and industry.

CHEMICAL RESEARCH FACULTIES

PROBLEMS AND SOLUTIONS ON ATOMIC, NUCLEAR AND PARTICLE PHYSICS

World Scientific Publishing Company This book, part of the seven-volume series Major American Universities PhD Qualifying Questions and Solutions contains detailed solutions to 483 questions/problems on atomic, molecular, nuclear and particle physics, as well as experimental methodology. The problems are of a standard appropriate to advanced undergraduate and graduate syllabi, and blend together two objectives — understanding of physical principles and practical application. The volume is an invaluable supplement to textbooks.

PHYSICOCHEMICAL AND ENZYMATIC MODIFICATION OF GUMS SYNTHESIS

Springer Nature Natural gums are polysaccharides consisting of multiple sugar units linked together via glycosidic linkages. Most natural gums reveal appropriate safety for oral consumption in the form of food additives or drug carriers. Challenges related to the utilization of natural polysaccharides, however, include uncontrolled rates of hydration, pH dependent solubility, viscosity reduction during storage, and weak interfacial properties. Modification provides an efficient route for not only removing such drawbacks but also improving physicochemical properties, such as solubility, viscosity and swelling index, and introducing new properties for varied applications.This book provides a comprehensive review of the various modifications on gums to make them suitable for food, cosmetic and pharmaceutical industries. The book is divided in four parts: an introduction to natural gums followed by in-depth coverage of chemical modification, physical modification, and enzymatic modification of gums. Each chapter includes reaction mechanisms, physicochemical properties, rheological properties, interfacial properties, applications and future perspectives. Presenting a succinct account on gum modification from a practical point of view, this book is a helpful reference for academic and industrial scientists and engineers in food technology, materials chemistry, pharmaceuticals, chemical, industrial, and applied engineering, biochemistry, and biopolymers.

SIMPLIFIED ICSE CHEMISTRY

Allied Publishers

PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS - PROCEEDINGS OF THE XXIV INTERNATIONAL CONFERENCE

World Scientific This volume contains contributions covering a wide range of subjects in the area of photonic, electronic and atomic collisions. These include the collisions of heavy particles and electrons with atoms, molecules and clusters; the coherent control of reaction dynamics using lasers and electromagnetic fields with molecules, clusters and liquids; recent experimental progress in the synthesis of antihydrogen; the interaction of solar winds with cometary atmospheres, and the physical interpretation of reactions in biological systems./a

ROSEN'S EMERGENCY MEDICINE - CONCEPTS AND CLINICAL PRACTICE, 2-VOLUME SET,EXPERT CONSULT PREMIUM EDITION - ENHANCED ONLINE FEATURES AND PRINT,7

ROSEN'S EMERGENCY MEDICINE - CONCEPTS AND CLINICAL PRACTICE, 2-VOLUME SET

Elsevier Health Sciences This reference places the latest information at users' fingertips, and a more streamlined format makes it easy to find the exact information quickly and conveniently. Includes access to a companion Web site for additional resources.

FUSION ENERGY UPDATE

CHEMICAL ENHANCED OIL RECOVERY

ADVANCES IN POLYMER FLOODING AND NANOTECHNOLOGY

Walter de Gruyter GmbH & Co KG This book aims at presenting, describing, and summarizing the latest advances in polymer flooding regarding the chemical synthesis of the EOR agents and the numerical simulation of compositional models in porous media, including a description of the possible applications of nanotechnology acting as a booster of traditional chemical EOR processes. A large part of the world economy depends nowadays on non-renewable energy sources, most of them of fossil origin. Though the search for and the development of newer, greener, and more sustainable sources have been going on for the last decades, humanity is still fossil-fuel dependent. Primary and secondary oil recovery techniques merely produce up to a half of the Original Oil In Place. Enhanced Oil Recovery (EOR) processes are aimed at further increasing this value. Among these, chemical EOR techniques (including polymer flooding) present a great potential in low- and medium-viscosity oilfields. • Describes recent advances in chemical enhanced oil recovery. • Contains detailed description of polymer flooding and nanotechnology as promising boosting tools for EOR. • Includes both experimental and theoretical studies. About the Authors Patrizio Raffa is Assistant Professor at the University of Groningen. He focuses on design and synthesis of new polymeric materials optimized for industrial applications such as EOR, coatings and smart materials. He (co)authored about 40 articles in peer reviewed journals. Pablo Druetta works as lecturer at the University of Groningen (RUG) and as engineering consultant. He received his Ph.D. from RUG in 2018 and has been teaching at a graduate level for 15 years. His research focus lies on computational fluid dynamics (CFD).

ULTRASOUND PROGRAM MANAGEMENT

A COMPREHENSIVE RESOURCE FOR ADMINISTRATING POINT-OF-CARE, EMERGENCY, AND CLINICAL ULTRASOUND

Springer This book addresses the wide range of issues that face the program leader – from how to choose a site and how to negotiate for equipment, to how to determine staffing requirements and how to anticipate and defuse possible turf issues with other programs and services in the hospital or healthcare facility. The early chapters of this book focus on the leadership of your program whether in your department or institution. The second section centers on education at all levels recognizing that smaller machines have made ultrasound available for medical students to advanced practitioners. The third section provides detailed logistics on equipment, maintenance, and safety. The fourth section focuses on a quality improvement program and includes a chapter on the workflow process. For those with limited budgets we also offer a section on practical operating and educational solutions. The fifth section offers insight into hospital level credentialing, quality assurance, national politics, and recent issues with accreditation. This is followed by reimbursement and coding. The last section covers topics in specialized communities. Chapters focus on ultrasound in global health, emergency medical services, pediatrics, critical care, community and office based practices. Multiple US working documents including checklists, graphs, spreadsheets, tables, and policy appendices are included.

PROGRESS IN LUBRICATION AND NANO- AND BIOTRIBOLOGY

CRC Press Tribology is a multidisciplinary science that encompasses mechanical engineering, materials science, surface engineering, lubricants, and additives chemistry with tremendous applications.

Progress in Lubrication and Nano- and Biotribology discusses the latest in lubrication engineering and nano- and biotribology. This book: Discusses green tribology and snakeskin tribology Explains biogreases and nanolubricant additives Explores applications in aerospace, additively manufactured parts, and severe environments Written for researchers and advanced students, this book encompasses a wide-ranging view of the latest in nano- and biotribology for a variety of cross-disciplinary applications.