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Global Deserts Outlook -
Exequiel Ezcurra 2006
Namibia Business Intelligence
Report - Practical Information,
Opportunities, Contacts

Plant Analysis - D Reuter 1997
Plant Analysis: An Interpretation
Manual 2nd Edition is an easily
accessible compilation of data
summarising the range of

nutrient concentration limits for crops, pastures, vegetables, fruit trees, vines, ornamentals and forest species. This information is valuable in assessing the effectiveness of fertiliser programs and for monitoring longer term changes in crop nutritional status. New to this edition: *Volume and scope of information accessed from the literature has expanded several-fold. Interpretation criteria for 294 species have been compiled in the tables from more than 1872 published papers. *New chapter on nutrient criteria for forest species. *Includes guidelines for collecting, handling and analysing plant material. An

entire chapter is devoted to the identification of nutrient deficiency and toxicity symptoms.

Myth and Ideology - Lawrence Krader 2021-04-30

Myth and Ideology develops a general theory of myth by reviewing esoteric and exoteric myths from many parts of the world from ancient times to the late twentieth century, highlighting the major approaches to the study of myth and ideology.

Proceedings of International Conference on Recent Advancement on Computer and Communication - Basant Tiwari 2018-04-18

The book is a compilation of

best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017) organized by IMPLab Research and Innovation Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital signal processing, digital electronics, telecommunication technologies, robotics, VLSI technologies, embedded system, satellite

communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and research.

Nero & Other Plays - Herbert Percy Horne 1888

Messages, Signs, and Meanings - Marcel Danesi 2004

"Messages, Signs, and Meanings can be used directly in introductory courses in semiotics, communications, media, or culture studies.

Additionally, it can be used as a complementary or

supplementary text in courses dealing with cognate areas of investigation (psychology, mythology, education, literary studies, anthropology, linguistics). The text builds upon what readers already know intuitively about signs, and then leads them to think critically about the world in which they live - a world saturated with images of all kinds that a basic knowledge of semiotics can help filter and deconstruct. The text also provides opportunities for readers to do "hands-on" semiotics through the exercises and questions for discussion that accompany each chapter. Biographical sketches of the major figures in the field are

also included, as is a convenient glossary of technical terms." "The overall plan of the book is to illustrate how message-making and meaning-making can be studied from the specific vantage point of the discipline of semiotics. This third edition also includes updated discussions of information technology throughout, focusing especially on how meanings are now negotiated through such channels as websites, chat rooms, and instant messages."-- Jacket.

Advances in Computing and Communications, Part II - Ajith

Abraham 2011-07-08

This volume is the second part

of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 72 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on database and information systems; distributed software development; human computer interaction and interface; ICT; internet and Web computing; mobile computing; multi agent systems; multimedia and video

systems; parallel and distributed algorithms; security, trust and privacy.

The Gulf States - Carl J. Bazarian 1980

Achtung-Panzer! - Heinz Guderian 1995

This is one of the most significant military books of the twentieth century. By an outstanding soldier of independent mind, it pushed forward the evolution of land warfare and was directly responsible for German armoured supremacy in the early years of the Second World War. Published in 1937, the result of 15 years of careful study since his days on the

German General Staff in the First World War, Guderian's book argued, quite clearly, how vital the proper use of tanks and supporting armoured vehicles would be in the conduct of a future war. When that war came, just two years later, he proved it, leading his Panzers with distinction in the Polish, French and Russian campaigns. Panzer warfare had come of age, exactly as he had forecast. This first English translation of Heinz Guderian's classic book - used as a textbook by Panzer officers in the war - has an introduction and extensive background notes by the modern English historian Paul Harris.

Oxide Semiconductors: Volume 1633 - Steve Durbin
2014-07-14
Symposium R, "Oxide Semiconductors" was held December 1-6 at the 2013 MRS Fall Meeting in Boston, Massachusetts. Oxide semiconductors are poised to take a more active role in modern electronics, particularly in the field of thin film transistors. While many advances have been made in terms of our understanding of fundamental optical and electronic characteristics, there remain many questions in terms of defects, doping, and optimal growth/synthesis conditions. This symposium proceedings

volume represents recent advances in growth and characterization of a number of different oxide semiconductors, as well as device fabrication.

Mai and Her Friends - Durgabai Vyam 2010

For children.

Integrated Metabolomics - Josh Connolly 2015-03-27

This book is a well-structured resource for a comprehensive understanding of metabolomics. It is a speedily rising field in life sciences, which plans to recognize and enumerate metabolites in a natural system.

Methodical chemistry is combined with complicated informatics and information tools to establish and

comprehend metabolic modification upon ecological perturbations. Jointly with added omics study such as genomics and proteomics, metabolomics plays a significant part in practical genomics. This book will offer the reader complete modern knowledge and techniques, particularly in the data examination approaches. It even deals with functions of metabolomics in human physical condition research, protection assessments and plant research.

Lasso Peptides - Yanyan Li 2014-10-21

Lasso peptides form a growing family of fascinating ribosomally-synthesized and

post-translationally modified peptides produced by bacteria. They contain 15 to 24 residues and share a unique interlocked topology that involves an N-terminal 7 to 9-residue macrolactam ring where the C-terminal tail is threaded and irreversibly trapped. The ring results from the condensation of the N-terminal amino group with a side-chain carboxylate of a glutamate at position 8 or 9, or an aspartate at position 7, 8 or 9. The trapping of the tail involves bulky amino acids located in the tail below and above the ring and/or disulfide bridges connecting the ring and the tail. Lasso peptides are subdivided into three subtypes

depending on the absence (class II) or presence of one (class III) or two (class I) disulfide bridges. The lasso topology results in highly compact structures that give to lasso peptides an extraordinary stability towards both protease degradation and denaturing conditions. Lasso peptides are generally receptor antagonists, enzyme inhibitors and/or antibacterial or antiviral (anti-HIV) agents. The lasso scaffold and the associated biological activities shown by lasso peptides on different key targets make them promising molecules with high therapeutic potential. Their application in drug design has been exemplified by the

development of an integrin antagonist based on a lasso peptide scaffold. The biosynthesis machinery of lasso peptides is therefore of high biotechnological interest, especially since such highly compact and stable structures have to date revealed inaccessible by peptide synthesis. Lasso peptides are produced from a linear precursor LasA, which undergoes a maturation process involving several steps, in particular cleavage of the leader peptide and cyclization. The post-translational modifications are ensured by a dedicated enzymatic machinery, which is composed of an ATP-

dependent cysteine protease (LasB) and a lactam synthetase (LasC) that form an enzymatic complex called lasso synthetase. Microcin J25, produced by *Escherichia coli* AY25, is the archetype of lasso peptides and the most extensively studied. To date only around forty lasso peptides have been isolated, but genome mining approaches have revealed that they are widely distributed among Proteobacteria and Actinobacteria, particularly in *Streptomyces*, making available a rich resource of novel lasso peptides and enzyme machineries towards lasso topologies.

Characterization of Biomaterials

- Susmita Bose 2013-03-12

This brief introductory chapter provides a broad overview of materials, biomaterials and the need to understand different techniques to characterize biomaterials. From this chapter, the reader can gain a perspective on how the rest of the topics in different chapters are divided to fully comprehend this inherently multidisciplinary field. Application of appropriate characterization tools can not only save time to fully evaluate different biomaterials, it can also make commercial biomedical devices safer. In the long run, safer biomedical devices can only reduce the

pain and suffering of mankind, a dream that resonates with every biomedical researcher.

Applied Cognitive Computing -

Hamid R. Arabnia 2019-01-09

The primary goal of the Applied Cognitive Computing conference is to provide a platform for researchers, scientists, industry experts and scholars to share their novel ideas and research results on the application of human cognition models in various practical computing applications. Through this conference, the organizers would like to develop an interdisciplinary venue to contribute and discuss the ongoing innovations,

applications and solutions to challenging problems of engineering human brain processes, learning mechanisms and decision making processes. This book contains the proceedings of the 2018 International Conference on Applied Cognitive Computing (ACC'18).

Na-ion Batteries - 2021-03-29

This book covers both the fundamental and applied aspects of advanced Na-ion batteries (NIB) which have proven to be a potential challenger to Li-ion batteries. Both the chemistry and design of positive and negative electrode materials are examined. In NIB, the

electrolyte is also a crucial part of the batteries and the recent research, showing a possible alternative to classical electrolytes – with the development of ionic liquid-based electrolytes – is also explored. Cycling performance in NIB is also strongly associated with the quality of the electrode-electrolyte interface, where electrolyte degradation takes place; thus, *Na-ion Batteries* details the recent achievements in furthering knowledge of this interface. Finally, as the ultimate goal is commercialization of this new electrical storage technology, the last chapters are dedicated

to the industrial point of view, given by two startup companies, who developed two different NIB chemistries for complementary applications and markets.

Carbon Nanotube-Polymer Composites - Dimitrios Tasis
2015-11-09

Chemically-modified carbon nanotubes (CNTs) exhibit a wide range of physical and chemical properties which makes them an attractive starting material for the preparation of super-strong and highly-conductive fibres and films. Much information is available across the primary literature, making it difficult to obtain an overall picture of the

state-of-the-art. This volume brings together some of the leading researchers in the field from across the globe to present the potential these materials have, not only in developing and characterising novel materials but also the devices which can be fabricated from them. Topics featured in the book include Raman characterisation, industrial polymer materials, actuators and sensors and polymer reinforcement, with chapters prepared by highly-cited authors from across the globe. A valuable handbook for any academic or industrial laboratory, this book will appeal to newcomers to the field and

established researchers alike.

Family-group Names of Recent Fishes - Richard Van Der Laan 2014

The family-group names of animals (superfamily, family, subfamily, supertribe, tribe and subtribe) are regulated by the International Code of Zoological Nomenclature. Family names are particularly important because they are among the most widely used of all technical animal names. Apart from using the correct family-group name according to the Code, it is also important to use one unique universal name (with a fixed spelling) to avoid confusion. We have compiled a list of familygroup names for

Recent fishes, applied the rules of the Code and, if possible, tried to conserve the names in prevailing recent practice. We list all of the family-group names found to date for Recent fishes (N=2625), together with their author(s) and year of publication. This list can be used in assigning the correct family-group name to a genus or a group of genera. With this publication we contribute to the usage of correct, universal family-group names in the classification of, and for communication about, Recent fishes.

Machine Learning, Optimization, and Data Science - Giuseppe Nicosia 2021-01-07

This two-volume set, LNCS 12565 and 12566, constitutes the refereed proceedings of the 6th International Conference on Machine Learning, Optimization, and Data Science, LOD 2020, held in Siena, Italy, in July 2020. The total of 116 full papers presented in this two-volume post-conference proceedings set was carefully reviewed and selected from 209 submissions. These research articles were written by leading scientists in the fields of machine learning, artificial intelligence, reinforcement learning, computational optimization, and data science presenting a substantial array of ideas, technologies, algorithms,

methods, and applications.

As Long as the Rivers Run -

James B. Waldram 1993-11-29

In past treaties, the Aboriginal people of Canada surrendered title to their lands in return for guarantees that their traditional ways of life would be protected.

Since the 1950s, governments have reneged on these commitments in order to acquire more land and water for hydroelectric development.

James B. Waldram examines this controversial topic through an analysis of the politics of hydroelectric dam construction in the Canadian Northwest, focusing on three Aboriginal communities in Manitoba and Saskatchewan. He argues that

little has changed in our treatment of Aboriginal people in the past hundred years, when their resources are still appropriated by the government “for the common good.” Using archival materials, personal interviews and largely inaccessible documents and letters, Waldram highlights the clear parallel between the treatment of Aboriginal people in the negotiations and agreements that accompany hydro development with the treaty and scrip processes of the past century.

Basic Machines and How They Work - Naval Education
2012-09-19

Only elementary math skills are

needed to follow this manual, which covers many machines and their components, including hydrostatics and hydraulics, internal combustion engines, trains, and more. 204 black-and-white illustrations.

Cultural Struggles - Dwight Conquergood 2013-05-22

The late Dwight Conquergood’s research has inspired an entire generation of scholars invested in performance as a meaningful paradigm to understand human interaction, especially between structures of power and the disenfranchised. Conquergood’s research laid the groundwork for others to engage issues of ethics in ethnographic research, performance as a meaningful

paradigm for ethnography, and case studies that demonstrated the dissolution of theory/practice binaries. Cultural Struggles is the first gathering of Conquergood's work in a single volume, tracing the evolution of one scholar's thinking across a career of scholarship, teaching, and activism, and also the first collection of its kind to bring together theory, method, and complete case studies. The collection begins with an illuminating introduction by E. Patrick Johnson and ends with commentary by other scholars (Micaela di Leonardo, Judith Hamera, Shannon Jackson, D. Soyini Madison, Lisa Merrill, Della Pollock, and Joseph

Roach), engaging aspects of Conquergood's work and providing insight into how that work has withstood the test of time, as scholars still draw on his research to inform their current interests and methods.

Carp genetic resources for aquaculture in Asia - David J. Penman 2005

There are over 1300 species of cyprinids in Asia, and these are utilized by people for food (capture fisheries and aquaculture) and as ornamental species. This publication focuses on cyprinid species that are bred in hatcheries and used in aquaculture and restocking activities. Introduced and threatened species of cyprinids

in Asia are also discussed. We are well aware that we have not covered many other cyprinid species that are utilized by people in Asia in various ways: wild species in capture fisheries, self-recruiting species in aquaculture ponds and other water bodies, and aquarist species.

Bulk Material Handling -

Michael Rivkin Ph.D.

2018-09-15

Tens of thousands of mechanical engineers are engaged in the design, building, upgrading, and optimization of various material handling facilities. The peculiarity of material handling is that there are numerous technical

solutions to any problem. The engineer's personal selection of the optimal solution is as critical as the technical component.

Michael Rivkin, Ph.D., draws on his decades of experience in design, construction, upgrading, optimization, troubleshooting, and maintenance throughout the world, to highlight topics such as: • physical principles of various material handling systems; • considerations in selecting technically efficient and environmentally friendly equipment; • best practices in upgrading and optimizing existing bulk material handling facilities; • strategies to select proper equipment in the early phases of a new project. Filled

with graphs, charts, and case studies, the book also includes bulleted summaries to help mechanical engineers without a special background in material handling find optimal solutions to everyday problems.

Shockwave Medicine - C.-J.

Wang 2018-04-05

This comprehensive reference work provides a detailed overview of shockwave therapy, a relatively new clinical specialty in modern medicine. It follows the evolution of Extracorporeal Shockwave Therapy (ESWT) from its initial stage as the gold standard for the disintegration of kidney stones to its regenerative effects in biological tissues.

Starting with the basic principles of shockwave treatment, the book goes on to review its application in musculoskeletal disorders, including osteonecrosis of the hip, tendinopathy, fracture treatment, and treatment of sports related injuries. The application of ESWT in cardiovascular diseases is discussed. This includes preclinical and clinical applications for ischemic cardiovascular disease and effects on angiogenesis and anti-inflammation-molecular-cellular signaling pathways. The treatment of urinary diseases and erectile dysfunction by ESWT is elaborated. The book

concludes with a discussion of future prospects of the shockwave therapy. Scholars and research fellows interested in shockwave medicine will benefit greatly from this work. It is also a useful clinical resource for nephrologists, urologists, cardiologists, and orthopedists.

Machine Learning, Optimization, and Data Science - Giuseppe Nicosia 2020-01-03

This book constitutes the post-conference proceedings of the 5th International Conference on Machine Learning, Optimization, and Data Science, LOD 2019, held in Siena, Italy, in September 2019. The 54 full papers presented were carefully reviewed and selected from 158

submissions. The papers cover topics in the field of machine learning, artificial intelligence, reinforcement learning, computational optimization and data science presenting a substantial array of ideas, technologies, algorithms, methods and applications.

Advances in Computing and Communications, Part I - Ajith Abraham 2011-07-08

This volume is the first part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July

2011. The 68 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on ad hoc networks; advanced micro architecture techniques; autonomic and context-aware computing; bioinformatics and bio-computing; cloud, cluster, grid and P2P computing; cognitive radio and cognitive networks; cyber forensics; database and information systems.

The Crescent and the Rising Sun; Indonesian Islam Under the Japanese Occupation, 1942-1945 - Harry Jindrich Benda
2021-09-09

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that

seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Computers Helping People with Special Needs - Klaus

Miesenberger 2014-06-26

The two-volume set LNCS 8547 and 8548 constitutes the refereed proceedings of the 14th International Conference on Computers Helping People with Special Needs, ICCHP 2014, held in Paris, France, in July 2014. The 132 revised full papers and 55 short papers presented were carefully

reviewed and selected from 362 submissions. The papers included in the first volume are organized in the following topical sections: accessible media; digital content and media accessibility; 25 years of the Web: weaving accessibility; towards e-inclusion for people with intellectual disabilities; the impact of PDF/UA on accessible PDF; accessibility of non-verbal communication; emotions for accessibility (E4A), games and entertainment software; accessibility and therapy; implementation and take-up of e-accessibility; accessibility and usability of mobile platforms for people with disabilities and elderly persons;

portable and mobile platforms for people with disabilities and elderly persons; people with cognitive disabilities: At, ICT and AAC; autism: ICT and AT; access to mathematics, science and music and blind and visually impaired people: AT, HCI and accessibility.

Judging Research - Martyn

Rittmann 2020-04-17

The 2019 MPDI Writing Prize invited early stage researchers who are not native English speakers to write on the subject of "how research should be evaluated and how researchers should be rewarded". Six prizes were awarded, however there were many more entries. This book collates many of those

entries and contains inspiring, thought-provoking and original viewpoints of open science through the eyes of those conducting research on a daily basis.

Games User Research - Miguel Angel Garcia-Ruiz 2017-12-19

"Fundamentally, making games is designing with others, everyone contributing from different angles towards the best possible product.

Conclusively, Garcia-Ruiz has chosen a collection of chapters that demonstrates several different aspects of working in gaming and working with others that stands to raise the level of expertise in the field."

—Veronica Zammitto, Senior

Lead Games User Research, Electronic Arts, Inc., from the Foreword Usability is about making a product easy to use while meeting the requirements of target users. Applied to video games, this means making the game accessible and enjoyable to the player. Video games with high usability are generally played efficiently and frequently while enjoying higher sales volumes. The case studies in this book present the latest interdisciplinary research and applications of games user research in determining and developing usability to improve the video game user experience at the human-computer interface level. Some of the

areas examined include practical and ethical concerns in conducting usability testing with children, audio experiences in games, tangible and graphical game interfaces, controller testing, and business models in mobile gaming. Games User Research: A Case Study Approach provides a highly useful resource for researchers, practitioners, lecturers, and students in developing and applying methods for testing player usability as well as for conducting games user research. It gives the necessary theoretical and practical background for designing and conducting a test for usability with an eye toward modifying

software interfaces to improve human-computer interaction between the player and the game.

Microbial Biofertilizers and Micronutrient Availability -

Shams Tabrez, Khan

2021-12-06

This volume addresses various issues related to micronutrient deficiency, especially zinc, and discusses the possible approaches for combating mineral deficiency among humans and plants. The book mainly focuses on the zinc biofortification of vegetable and cereal crops and highlights the consequences of zinc deficiency and the health risks associated with zinc deficiency, especially

in children and expecting mothers. The authors discuss different types of food that are rich in zinc and other minerals, how diets can be designed to meet the daily zinc requirements, and the impact of zinc deficiency on plant health and quality of agricultural products and the role of micronutrients in abiotic stress tolerance. The book also covers sustainable approaches to zinc biofortification in crops, such as the microbial solubilization of zinc in soil to improve zinc uptake by plants, and the formulation of these microbes into biofertilizers. The book will be of interest to dieticians, agricultural scientists, students

and microbiologists.

Vaccine Efficacy Evaluation -
Lijuan Yuan 2022-04-12

Testing the immunogenicity, protective efficacy and safety in animal models is a crucial step in vaccine development. Pigs raised in germ-free environments, called gnotobiotic (Gn) pigs, are one of the most useful animal models for testing vaccines. The Gn pig model is a widely accepted model for studying pathogenesis and immunity and an ideal model for pre-clinical testing for the safety and efficacy of enteric viral vaccines. Through these studies and others, the Gn pig model has been established as the most reliable animal model for

pre-clinical evaluation of human rotavirus and norovirus vaccines. This book provides detailed information on establishing Gn pig models, determining a proper virus inoculum pool and challenge dose, measuring protection and calculating efficacy, and delineating intestinal and systemic immune responses associated with the protection.

Key Features Provides a natural history of human rotavirus and norovirus infection in Gn pigs Establishes the optimal virus challenge doses in Gn pigs for vaccine evaluation Evaluates various candidate rotavirus and norovirus vaccines Discusses human gut microbiota

transplanted Gn pig models

Documents the role of probiotics and rice bran as prophylactics and vaccine adjuvants

Contemporary Climatology - P.J. Robinson 2014-09-25

Now in its second edition, Climatology continues to provide an up-to-date stimulating and comprehensive guide to the nature of the earth's climate. It presents a synthesis of contemporary scientific ideas about atmospheric circulation. Topics covered include: -Energy systems-The hydrological cycle-General circulation, local and regional climate-Application of climate information-Use of

satellite observations

Beginning ASP.NET MVC 1.0 -

Simone Chiaretta 2009-08-04

ASP.NET MVC (Model View Framework) allows you to use ready-to-use MVC code so you can develop Web applications faster. This book's cut-to-the-chase approach gets you up to speed on the new ASP.NET MVC without getting bogging you down in learning or re-learning ASP.NET itself. You'll receive straightforward instruction on concepts, backed by real-world case studies and examples that offer practical solutions. Topics include test-driven development and unit testing, the principles of the MVC pattern, how to implement

it, how to move from traditional ASP.NET Webforms to ASP.NET MVC, and much more.

Model Code for Service Life

Design - fib Fédération

internationale du béton

2006-01-01

fib Bulletin 34 addresses

Service Life Design (SLD) for

plain concrete, reinforced

concrete and pre-stressed

concrete structures, with a

special focus on design

provisions for managing the

adverse effects of degradation.

Its objective is to identify agreed

durability related models and to

prepare the framework for

standardization of performance

based design approaches. Four

different options for SLD are

given: - a full probabilistic

approach, - a semi probabilistic

approach (partial factor design),

- deemed to satisfy rules, -

avoidance of deterioration. The

service life design approaches

described in this document may

be applied for the design of new

structures, for updating the

service life design if the

structure exists and real

material properties and/or the

interaction of environment and

structure can be measured (real

concrete covers, carbonation

depths), and for calculating

residual service life. The bulletin

is divided into five chapters: 1.

General 2. Basis of design 3.

Verification of Service Life

Design 4. Execution and its quality management 5.

Maintenance and condition control It also includes four informative annexes, which give background information and examples of procedures and deterioration models for the application in SLD. The format of Bulletin 34 follows the CEB-FIP tradition for Model Codes: the main provisions are given on the right-hand side of the page, and on the left-hand side, the comments. Note: An Italian translation of Bulletin 34 is also available; contact us for further details.

Colloidal Semiconductor Nanocrystals: Synthesis, Properties, and Applications -

Vladimir Lesnyak 2020-01-06

Failure Mechanisms in Alloys -
George A. Pantazopoulos
2020-03-19

The era of lean production and excellence in manufacturing, advancing with sustainable development, demands the rational utilization of raw materials and energy resources, adopting cleaner and environmentally-friendly industrial processes. In view of the new industrial revolution, through digital transformation, the exploitation of smart and sophisticated materials systems, the need of minimizing scrap and increasing efficiency, reliability and lifetime and, on

the other hand, the pursuit of fuel economy and limitation of carbon footprint, are necessary conditions for the imminent growth in a highly competitive economy. Failure analysis is an interdisciplinary scientific topic, reflecting the opinions and interpretations coming from a systematic evidence-gathering procedure, embracing various important sectors, imparting knowledge, and substantiating improvement practices. The deep understanding of material/component role (e.g., rotating shaft, extrusion die, gas pipeline) and properties will be of central importance for fitness for purpose in certain industrial processes and applications.

Finally, it is hoped and strongly believed that the accumulation of additional knowledge in the field of failure mechanisms and the adoption of the principles, philosophy, and deep understanding of failure analysis process approach will strongly promote the learning concept, as a continuously evolving process leading to personal and social progress and prosperity.

Iontronics - Janelle Leger

2016-04-19

The field of organic electronics promises exciting new technologies based on inexpensive and mechanically flexible electronic devices, and is now seeing the beginning of commercial success. On the

sidelines of this increasingly well-established field are several emerging technologies with innovative mechanisms and functions that utilize the mixed ionic/electronic conducting character of conjugated organic materials. Iontronics: Ionic Carriers in Organic Electronic Materials and Devices explores the potential of these materials, which can endow electronic devices with unique functionalities. Fundamental science and applications With contributions from a community of experts, the book focuses on the use of ionic functions to define the principle of operation in polymer devices. It begins by

reviewing the scientific understanding and important scientific discoveries in the electrochemistry of conjugated polymers. It examines the known effects of ion incorporation, including the theory and modulation of electrochemistry in polymer films, and it explores the coupling of electronic and ionic transport in polymer films. The authors also describe applications that use this technology, including polymer electrochromic devices, artificial muscles, light-emitting electrochemical cells, and biosensors, and they discuss the fundamental technological hurdles in these areas. The

changes in materials properties and device characteristics due to ionic conductivity and electrochemical doping in electrically conductive organic materials, as well as the importance of these processes in a number of different and exciting technologies, point to a large untapped potential in the development of new applications and novel device architecture. This volume captures the state of the science in this burgeoning field.

Emerging Technologies in Computer Engineering - Arun K. Somani 2019

This book constitutes the refereed proceedings of the Second International

Conference on Emerging Technologies in Computer Engineering: Microservices in Big Data Analytics, ICETCE 2019, held in Jaipur, India, in February 2019. The 28 revised full papers along with 1 short paper presented were carefully reviewed and selected from 253 submissions. ICETCE conference aims to showcase advanced technologies, techniques, innovations and equipments in computer engineering. It provides a platform for researchers, scholars, experts, technicians, government officials and industry personnel from all over the world to discuss and share their valuable ideas and

experiences.