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### JOEL WILEY

*Photovoltaic Module Reliability* IGI Global

This thesis presents novel pathways for one step or two step modifications of different types of lignin without the need of any catalyst. Such novel functional lignins were characterized in detail and are now ready for their utilization in novel polymeric materials and thus for new applications. Hereby the value of lignin can be increased by offering novel strategies of incorporating lignins as building block into polyurethanes, but also various other polymer matrices are thinkable for future studies.

**Artificial Intelligence in Project Management and Making Decisions** Frontiers Media SA

The UNEP Year Book 2010 is essential, informative and authoritative reading and reports on new environmental science plus recent developments in our changing environment. It looks at progress in environmental governance: the effects of continuing degradation and loss of the world's ecosystems; impacts of climate change; how harmful substances and hazardous waste effect human health and the environment; environmentally related disasters and conflicts; and unsustainable use of resources. Water is a recurrent theme in this seventh edition. Each chapter considers water-related environmental changes, together with a number of challenges and opportunities.

*Universal Access in Human-Computer Interaction: Applications and Services for Quality of Life*

Springer Science & Business Media

This volume does much more than survey modern advanced color processing. Starting with a historical perspective on ways we have classified color, it sets out the latest numerical techniques for analyzing and processing colors, the leading edge in our search to accurately record and print what we see. The human eye perceives only a fraction of available light wavelengths, yet we live in a multicolor world of myriad shining hues. Colors rich in metaphorical associations make us "purple with rage" or "green with envy" and cause us to "see red." Defining colors has been the work of centuries, culminating in today's complex mathematical coding that nonetheless remains a work in progress: only recently have we possessed the computing capacity to process the algebraic matrices that reproduce color more accurately. With chapters on dihedral color and image spectrometers, this book provides technicians and researchers with the knowledge they need to grasp the intricacies of today's color imaging.

**Multidimensional Views on Enterprise Information Systems** UNEP/Earthprint

In large-scale media-sharing social networks, where millions of users create, share, link and reuse media content, there are clear challenges in protecting content security and intellectual property, and in designing scalable and reliable networks capable of handling high levels of traffic. This comprehensive resource demonstrates how game theory can be used to model user dynamics and optimize design of media-sharing networks. It reviews the fundamental methodologies used to model and analyze human behavior, using examples from real-world multimedia social networks. With a thorough investigation of the impact of human factors on multimedia system design, this accessible book shows how an understanding of human behavior can be used to improve system performance. Bringing together mathematical tools and engineering concepts with ideas from sociology and human behavior analysis, this one-stop guide will enable researchers to explore this emerging field further and ultimately design media-sharing systems with more efficient, secure and personalized services.

*2009 NGA List of Lights* Springer Nature

This book constitutes the refereed proceedings of the 15th International Conference on Software Process Improvement and Capability Determination, SPICE 2015, held in Gothenburg, Sweden, in June 2015. The 17 revised full papers presented together with three short papers were carefully reviewed and selected from 48 submissions. The papers are organized in topical sections on industrial frameworks; implementation and assessment; process improvement; agile processes; assessment and maturity models; process and education.

*Natural Environments and Human Health* Elsevier

The Chemistry of Heterocyclic Compounds, since its inception, has been recognized as a cornerstone of heterocyclic chemistry. Each volume attempts to discuss all aspects – properties, synthesis, reactions, physiological and industrial significance – of a specific ring system. To keep the series up-to-date, supplementary volumes covering the recent literature on each individual ring system have been published. Many ring systems (such as pyridines and oxazoles) are treated in distinct books, each consisting of separate volumes or parts dealing with different individual topics. With all authors are recognized authorities, the Chemistry of Heterocyclic Chemistry is considered worldwide as the indispensable resource for organic, bioorganic, and medicinal chemists.

**Shreir's Corrosion** ProStar Publications

This four-volume reference work builds upon the success of past editions of Elsevier's Corrosion title (by Shreir, Jarman, and Burstein), covering the range of innovations and applications that have emerged in the years since its publication. Developed in partnership with experts from the Corrosion and Protection Centre at the University of Manchester, Shreir's Corrosion meets the research and productivity needs of engineers, consultants, and researchers alike. Incorporates coverage of all aspects of the corrosion phenomenon, from the science behind corrosion of metallic and non-metallic materials in liquids and gases to the management of corrosion in specific industries and applications. Features cutting-edge topics such as medical applications, metal matrix composites, and corrosion modeling. Covers the benefits and limitations of techniques from scanning probes to electrochemical noise and impedance spectroscopy.

**Corporate Risk Management for International Business** CABI

This book presents new developments and advances in the theory, applications, and design methods of computational intelligence, integrated in various areas of project management and BIM environments. The chapters of the book span different soft computing techniques, such as: linguistic data summarization, fuzzy systems, evolutionary algorithms, estimation distribution algorithms, computing with words, augmented reality, and hybrid intelligence systems. In addition, different applications of the neutrosophic theory are presented for the treatment of uncertainty and indeterminacy in decision-making processes. Several chapters of the book constitute systematic reviews, useful for future investigations in the following topics: linguistic summarization of data, augmented reality, and the development of BIM technologies. It is a particularly interesting book for engineers, researchers, specialists, teachers, and students related to project management and the development of BIM technologies.

**Behavior Dynamics in Media-Sharing Social Networks** CRC Press

Contemporary society resides in an age of ubiquitous technology. With the consistent creation and wide availability of multimedia content, it has become imperative to remain updated on the latest trends and applications in this field. Digital Multimedia: Concepts, Methodologies, Tools, and Applications is an innovative source of scholarly content on the latest trends, perspectives, techniques, and implementations of multimedia technologies. Including a comprehensive range of topics such as interactive media, mobile technology, and data management, this multi-volume book is an ideal reference source for engineers, professionals, students, academics, and researchers seeking emerging information on digital multimedia.

*Cloud Technology: Concepts, Methodologies, Tools, and Applications* University of Chicago Press

Metal coatings, Electrodeposition, Electroplating, Coatings, Corrosion protection, Decorative coatings, Nickel, Chromium, Copper, Iron, Steels, Zinc alloys, Copper alloys, Aluminium, Aluminium alloys, Designations, Thickness, Corrosion resistance, Heat treatment

*Synthesis and Characterization of Novel Functional Lignins* - Springer

As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. Cloud Technology: Concepts, Methodologies, Tools, and Applications investigates the latest research in the ubiquitous Web, exploring the use of applications and software that make use of the Internet's anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more.

*The Microbiology, Pathogenesis and Zoonosis of Milk Borne Diseases* Frontiers Media SA

The Wool Handbook: Morphology, Structure, Property and Applications explores the fundamental aspects of wool fibers as well as traditional and novel applications of wool in areas including polymer composites and technical textiles. Apart from textiles and garments, wool has long been used for various diversified applications due to its unique material properties. Wool is inherently fire resistant, antimicrobial, flexible and antibacterial, and as a natural material, it can be used to create environmentally sustainable products. This book explains basic and advanced topics related to wool fibers, from shearing to marketing, drawing on academic and industrial research from a range of subjects. Providing statistics, processing methods, and testing and characterization techniques for wool fiber, this book will help readers to use wool fibers to find new applications and solutions. Provides advanced testing methods to explore the material characteristics of wool. Includes the latest industrial methods for physical and chemical processing of wool. Presents case studies on how wool fibers have been made into successful bio-based composite and textile products.

*Dairy Microbiology* Springer Nature

Renewable raw materials are becoming increasingly important as an alternative resource base in industrial networks. Consequently, research for methods improving the efficient use of renewable resources in production processes with by-products is crucial. The aim is cascade utilization, thus the multiple utilization of a raw material before its conversion into energy. The International Conference on Resource Efficiency in Interorganizational Networks (ResEff) brings together interdisciplinary researchers developing strategies and solution concepts for efficient resource utilization. It is therefore a platform for scientific exchange both between experts as well as interdisciplinary groups from agricultural and forestry science, mathematical optimization, operations research, marketing, business informatics, production and logistics. The following facets of the challenging topic of resource efficiency in interorganizational networks are covered: Materials, technologies, planning of production and value-added networks for renewable resources as well as governance, coordination and sale of products from renewable resources.

**Pyrazolones, Pyrazolidones, and Derivatives, Volume 20** John Wiley & Sons

For more than thirty years, the History of Cartography Project has charted the course for scholarship on cartography, bringing together research from a variety of disciplines on the creation, dissemination, and use of maps. Volume 6, Cartography in the Twentieth Century, continues this tradition with a groundbreaking survey of the century just ended and a new full-color, encyclopedic format. The twentieth century is a pivotal period in map history. The transition from paper to digital formats led to previously unimaginable dynamic and interactive maps. Geographic information systems radically altered cartographic institutions and reduced the skill required to create maps. Satellite positioning and mobile communications revolutionized wayfinding. Mapping evolved as an important tool for coping with complexity, organizing knowledge, and influencing public opinion in all parts of the globe and at all levels of society. Volume 6 covers these changes comprehensively, while thoroughly demonstrating the far-reaching effects of maps on science, technology, and society—and vice versa. The lavishly produced volume includes more than five hundred articles accompanied by more than a thousand images. Hundreds of expert contributors provide both original research, often based on their own participation in the developments they describe, and interpretations of larger trends in cartography. Designed for use by both scholars and the general public, this definitive volume is a reference work of first resort for all who study and love maps.

*Practical Sustainability* Lavoisier

Les traitements de surface et les revêtements, peinture ou émail, potentialisent les propriétés des métaux en leur offrant une protection, une résistance aux agressions, une qualité esthétique. Ils sont divers et soumis à des normes strictes. Le Guide de sous-traitance des traitements de surface et de la peinture industrielle répond au besoin concret du donneur d'ordre qui, une fois le traitement décidé par son bureau d'études ou par son propre client, doit rédiger le contrat et les spécifications techniques nécessaires au façonnier, permettant de garantir la bonne exécution des travaux, sans avoir pour cela à connaître la théorie de la corrosion des métaux ni précisément les compositions chimiques utilisées. Le recours à des façonniers qui ont entrepris une démarche qualité sanctionnée, de préférence, par une certification délivrée par un organisme indépendant, facilite le dialogue. C'est pourquoi la première partie de cet ouvrage déroule le processus Achat tel qu'il pourrait être décrit dans le Manuel Qualité du donneur d'ordre, en détaillant, pour chacune des activités du processus, les particularités de l'achat d'une prestation de traitement de surface ou de peinture. La connaissance des principes de traitement reste indispensable, ainsi que celle des contrôles réalisables et des informations nécessaires au façonnier. La deuxième partie décrit donc les principaux traitements et revêtements : chimiques, électrolytiques, sous vide, par immersion, par projection thermique ou au tampon, avec pour chacun d'eux ce que le client doit spécifier au

façonner et ce qui doit être vérifié. Une large place est faite à la préparation de surface, qui est cruciale pour la réussite du traitement ou du revêtement. La troisième partie est principalement consacrée à la peinture industrielle (conditions d'application, contrôle, colorimétrie, vocabulaire), ainsi qu'à l'émaillage des métaux. Pour chacun des traitements, revêtements ou peinture, les causes possibles d'anomalie sont indiquées afin de faciliter le dialogue avec le fournisseur. L'ensemble des informations s'appuie sur les normes NF ou ISO en vigueur. Pour chaque traitement les normes essentielles sont indiquées en tête du chapitre correspondant. Enfin, les normes relatives au traitement de surface et à la peinture industrielle sont répertoriées en fin d'ouvrage, selon un classement numérique. Ce guide s'adresse aux industriels qui souhaitent faire réaliser sur des pièces métalliques des travaux de traitement de surface ou de peinture, que ce soit dans un but de protection, de décoration, ou tout autre but technique, en se conformant aux normes en vigueur.

*UNEP Year Book 2010* Apprimus Wissenschaftsverlag

This Handbook covers the fundamentals of carbon nanotubes (CNT), their composites with different polymeric materials (both natural and synthetic) and their potential advanced applications. Three different parts dedicated to each of these aspects are provided, with chapters written by worldwide experts in the field. It provides in-depth information about this material serving as a reference book for a broad range of scientists, industrial practitioners, graduate and undergraduate students, and other professionals in the fields of polymer science and engineering, materials science, surface science, bioengineering and chemical engineering. Part 1 comprises 22 chapters covering early stages of the development of CNT, synthesis techniques, growth mechanism, the physics and chemistry of CNT, various innovative characterization techniques, the need of functionalization and different types of functionalization methods as well as the different properties of CNT. A full chapter is devoted to theory and simulation aspects. Moreover, it pursues a significant amount of work on life cycle analysis of CNT and toxicity aspects. Part 2 covers CNT-based polymer nanocomposites in approximately 23 chapters. It starts with a short introduction about polymer nanocomposites with special emphasis on CNT-based polymer nanocomposites, different manufacturing techniques as well as critical issues concerning CNT-based polymer nanocomposites. The text deeply reviews various classes of polymers like thermoset, elastomer, latex, amorphous thermoplastic, crystalline thermoplastic and polymer fibers used to prepare CNT based polymer composites. It provides detailed awareness about the characterization of polymer composites. The morphological, rheological, mechanical, viscoelastic, thermal, electrical, electromagnetic shielding properties are discussed in detail. A chapter dedicated to the simulation and multiscale modelling of polymer nanocomposites is an additional attraction of this part of the Handbook. Part 3 covers various potential applications of CNT in approximately 27 chapters. It focuses on individual applications of CNT including mechanical applications, energy conversion and storage applications, fuel cells and water splitting, solar cells and photovoltaics, sensing applications, nanofluidics, nanoelectronics and microelectronic devices, nano-optics, nanophotonics and nano-optoelectronics, non-linear optical applications, piezo electric applications, agriculture applications, biomedical applications, thermal materials, environmental remediation applications, anti-microbial and antibacterial properties and other miscellaneous applications and multi-functional applications of CNT based polymer nanocomposites. One chapter is fully focussed on carbon nanotube research developments: published papers and patents. Risks associated with carbon nanotubes and competitive analysis of carbon nanotubes with other carbon allotropes are also addressed in this Handbook.

**Adequacy of Northern New England Air Service, Hearings Before the Subcommittee on Aviation..., 92-1, September 9 and 10, 1971** Universitätsverlag Göttingen

28th European Symposium on Computer Aided Process Engineering, Volume 43 contains the papers presented at the 28th European Society of Computer-Aided Process Engineering (ESCAPE) event held in Graz, Austria June 10-13, 2018. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 28th European Society of Computer-Aided Process Engineering (ESCAPE) event

### **Computer Methods, Imaging and Visualization in Biomechanics and Biomedical Engineering** Springer

Welcome to the Proceedings of ICCHP 2010! We were proud to welcome participants from more than 40 countries from all over the world to this year's ICCHP. Since the late 1980s, it has been ICCHP's mission to support and reflect development in the field of "Assistive Technologies," eAccessibility and inclusion. With a focus on scientific quality, ICCHP has become an important reference in our field. The 2010 conference and this collection of papers once again fulfilled this mission. The International Programme Committee, comprising 106 experts from all over the world, selected 147 full and 44 short papers out of 328 abstracts submitted to ICCHP. This acceptance ratio of about half of the submissions demonstrates our strict pursuit of scientific quality both of the programme and in particular of the proceedings in your hands. An impressive number of experts agreed to organize "Special Thematic Sessions" (STS) for ICCHP 2010. These STS help to bring the meeting into sharper focus in several key areas. In turn, this deeper level of focus helps to collate a state of the art and mainstream technical, social, cultural and political developments.

*Guide de sous-traitance des traitements de surface et de la peinture industrielle* Cambridge University Press

Food is the first necessity for humans to survive with huge amounts of food consumed daily worldwide. Globalization of food industry results in an increasingly complex food chain, making food safety a universal issue. Many millions of people in the world become sick while hundreds of thousand die annually due to consumption of contaminated food. Pathogenic bacteria contaminate food at any stages in the food chain, including production, processing, supplying, and storage. The most commonly known bacterial pathogens associated with human foodborne diseases worldwide are *Salmonella enterica*, *Campylobacter jejuni*, *Escherichia coli*, *Listeria monocytogenes*, *Cronobacter sakazakii*, *Vibrio cholerae*, and *Vibrio parahaemolyticus*. This eBook includes publications on recent discoveries in genetic diversity, prevalence, resistance and novel transmission vectors; molecular mechanisms underlying the pathogenesis; and new compounds and treatment strategies for better control of the human foodborne pathogenic bacteria. The information in the articles supports the urgent need for improving food safety and public health, particularly in globalization background.

*Standards Catalogue* Elsevier

Provides practical guidance on the latest quality assurance and accelerated stress test methods for improved long-term performance prediction of PV modules This book has been written from a historical perspective to guide readers through how the PV industry learned what the failure and degradation modes of PV modules were, how accelerated tests were developed to cause the same failures and degradations in the laboratory, and then how these tests were used as tools to guide the design and fabrication of reliable and long-life modules. Photovoltaic Module Reliability starts with a brief history of photovoltaics, discussing some of the different types of materials and devices used for commercial solar cells. It then goes on to offer chapters on: Module Failure Modes; Development of Accelerated Stress Tests; Qualification Testing; and Failure Analysis Tools. Next, it examines the use of quality management systems to manufacture PV modules. Subsequent chapters cover the PVQAT Effort; the Conformity Assessment and IECRE; and Predicting PV Module Service Life. The book finishes with a look at what the future holds for PV. A comprehensive treatment of current photovoltaic (PV) technology reliability and necessary improvement to become a significant part of the electric utility supply system Well documented with experimental and practical cases throughout, enhancing relevance to both scientific community and industry Timely contribution to the harmonization of methodological aspects of PV reliability evaluation with test procedures implemented to certify PV module quality Written by a leading international authority in PV module reliability Photovoltaic Module Reliability is an excellent book for anyone interested in PV module reliability, including those working directly on PV module and system reliability and preparing to purchase modules for deployment.