

Saleemi N A 2005

The topic collection “Membranes and Membrane Technologies II” of latest scientific research published by Trans Tech Publications from 2018 up to 2019 covers a wide range of engineering solutions in the field of properties research, development, and production of various types of membranes and their use in the technologies for the treatment of the drink water and wastewater, gas separation, etc. We hope this collection will be useful and interesting to a broad audience of researchers and engineers.

This book contains information on various virus families, with the focus on viruses causing prevalent infections in parts of developing countries in Africa and Asia. Viral proteins play an important role in their replication and infection potential, and are the main candidates for antiviral therapy and vaccines. While some antiviral vaccines are available for quite some time (e.g. MMR), there are regions in the world still struggling with some infections. This is especially the problem in regions where the morbidity rate from viral infections among young children is high. This situation requires urgent measures to put infections under control. This text is designed to provide an understanding of quantitative techniques, this manual is suitable for students on IComA, ACCA, CIMA, CIPFA, ICSA, IDPM, BA Business Studies and BTEC higher level courses. It contains self-review questions and longer examination answers. A lecturers' support pack is included.

This volume is an essential and comprehensive review of all aspects of minimally invasive urology. Specifically, the book evaluates minimally invasive approaches to all aspects of clinical urology. Unlike prior texts that focus on a specific technology or a specific disease, this unique reference provides a broad-based view of minimally invasive urology. As such, laparoscopic surgery, robotic surgery, endoscopic surgery, and single-site surgery are all reviewed within the context of renal cancer, renal reconstruction, bladder cancer, prostate cancer, female urology, transplant donor nephrectomy, stone disease, stricture disease, and benign prostatic hyperplasia. The text concludes with chapters on informed consent and cost, which are also quite relevant to the practicing urologist. Authored by a wide array of leaders in the field known for both their clinical prowess and commitment to education, *Minimally Invasive Urology: An Essential Clinical Guide to Endourology, Laparoscopy, LESS and Robotics* provides a critical resource for clinicians, surgeons, operating room technicians, operating room managers and hospital administration.

One of the major limitations of the Ambient Intelligent Systems today is the lack of semantic models of those activities on the environment, so that the system can recognize the specific activity being performed by the user(s) and act accordingly. In this context, this thesis addresses the general problem of knowledge representation in Smart Spaces. The main objective is to develop knowledge-based models, equipped with semantics to learn, infer and monitor human behaviours in Smart Spaces. Moreover, it is easy to recognize that some aspects of this problem have a high degree of uncertainty, and therefore, the developed models must be equipped with mechanisms to manage this type of information. As an added value, this system should be sufficiently simple and flexible to be managed by non-expert users, and thus, facilitate the transfer of research to industry. To do this, we develop

graphical models to represent human behaviour in Smart Spaces, in order to provide them with more usability in the final application. As a result, human behaviour recognition can help assisting people with special needs such as independent elders, in remote rehabilitation monitoring, industrial process guidelines, and many other cases.

In its most advanced form, e-commerce allows unidentified purchasers to pay obscure vendors in 'electronic cash' for products that are often goods, services and licenses all rolled into one. This book considers the implications for the domestic and international tax systems of the growth of e-commerce. It covers a wide variety of activities, from discussion of the principles governing direct and indirect taxation, to explanation of the implementation and use of e-commerce on the part of businesses as well as the application of existing tax principles in this field. With its focus on the broader issues surrounding the expansion of e-commerce and its attention to the problems arising internationally in this field, *Global Perspectives in E-Commerce Taxation Law* will appeal to scholars worldwide.

The Most Detailed Resource Available on Points of Zero Charge With their work growing in complexity, chemists involved with surface phenomena-related projects have outgrown the common resources available to them on points of zero charge (PZC) of oxides. Reporting on a limited number of materials in a limited number of scenarios, these resources often leave scientists wondering if the variances reported in the results they depend upon are due to actual differences in properties among particular samples or due to differences between isoelectric points (IEP) and points of zero charges obtained by titration. Taking on the monumental task of building a complete reference, Marek Kosmulski, a leading authority in the field of surface chemistry (Hirsch index of 22), takes a new approach to provide chemists with the most detailed resource on the points of zero charge of oxides available to date. *Surface Charging and Points of Zero Charge* presents PZC data on well-defined specimens of materials sorted by trademark, manufacturer (commercial materials), location (natural materials), and specific recipe (synthetic materials). The text emphasizes the comparison between particular results obtained for different portions of the same or very similar material. Synthesizing information published in research reports over the past few decades, this invaluable reference: Characterizes materials in terms of thermochemical data, chemical composition (level of impurities), crystallographic structure, specific surface area (various methods), particular size, and morphology Provides additional references to more detailed sample characterization (SEM and TEM images, XRD patterns, and particle size distributions) Reviews the PZC and IEP--with all possible details regarding the method, type of instrument, and experimental conditions Pays special attention to correlations of the PZC and IEP with other physical quantities and properties, surface charging in mixed and nonaqueous solvents, surface charging at high ionic strengths, and ion-specificity in 1-1 electrolytes All available sources were used to obtain the data in this reference making it the definitive resource on PZC/IEP. Destined to become a classic, *Surface Charging and Points of Zero Charge* points the way for further research with tried and true methods that help researchers avoid the doubt that can lead to countless hours of unnecessary research. Erratum for this volume can be found on the author's website.

Siblings and all the lateral relationships that follow from them are clearly important and their interaction is widely observed,

particularly in creative literature. Yet in the social, psychological and political sciences, there is no theoretical paradigm through which we might understand them. In the Western world our thought is completely dominated by a vertical model, by patterns of descent or ascent: mother or father to child, or child to parent. Yet our ideals are 'liberty, equality and fraternity' or the 'sisterhood' of feminism; our ethnic wars are the violence of 'fratricide'. When we grow up, siblings feature prominently in sex, violence and the construction of gender differences but they are absent from our theories. This book examines the reasons for this omission and begins the search for a new paradigm based on siblings and lateral relationships. This book will be essential reading for those studying sociology, psychoanalysis and gender studies. It will also appeal to a wide general readership.

The Frontiers in Materials Editorial Office team are delighted to present the inaugural "Women in Science: Materials" article collection, showcasing the high-quality work of women in science across the breadth of materials science and engineering. All researchers featured within this collection were individually nominated by the Topic Editors in recognition of their status as leading academics who have great potential to influence the future directions of their respective fields. The work presented here highlights the diversity of research performed across the entire breadth of the materials science and engineering field and presents advances in theory, experimentation, and methodology with applications for solving compelling problems. This Editorial features the corresponding author(s) of each paper published within this important collection, ordered by section alphabetically, highlighting them as the great researchers of the future. The Frontiers in Materials Editorial Office team would like to thank each researcher who contributed their work to this collection. We would also like to personally thank the Topic Editors for their exemplary leadership of this article collection; their strong support and passion for this important, community-driven collection has ensured its success and global impact. Emily Young Journal Development Manager

The essays are uniformly thoughtful, perceptive, and readable ... [and] engage the current scholarship gracefully, without pretense or pedantry. Each chapter is stuffed with insights. --John Tallmadge.

Accounting is the discipline with the oldest historical culture, being the first to be recognized by humanity when Adam and Eve were made to account for what they did in paradise. It is also the only discipline that will come into play in the Hereafter, where everybody would be raised up as an accountant - to account for all they have done during their life time on earth! Accounting is a service-providing discipline, with a rich theoretical background, which makes available information (especially financial) to guide various decision-making processes. Business owners, creditors, managers, prospective investors, government and its agencies, employees and even the general public seek accounting information to guide them when taking various informed decisions about reporting entities and the environment within which they operate. This book addresses the historical accounting culture, its theories as well as its practices. It is made up of fifteen chapters, covering various historical, theoretical and practical aspects of Accounting, ranging from accounting standardization to financial reporting. The book is an attempt to address some of the lacunae in advanced accounting issues, both in theory and in practice. Students of advanced accounting theory and practice at the professional and academic levels in Universities, Polytechnics and Professional Institutes would find the book an essential

companion.

Accounting Simplified is a step-by-step introduction to financial accounting written in plain simple language. Taking students from the very basics to the elementary principles of management accounting, the text emphasises the real-world application of accounting methods and the importance of practising skills in order to reinforce learning. Drawing on years of experience as a university lecturer marking student exam papers, the author uses plenty of worked examples to set out the details of each topic before providing self-test questions for quick revision.

Increasing interest in lightweight and high-performance materials is leading to significant research activity in the area of polymers and composites. One recent focus is to develop multifunctional materials that have more than one property tailored as to the specified design requirements, in addition to achieving low density. The possibility of simultaneously tailoring several desired properties is attractive but very challenging, and it requires significant advancement in the science and technology of high-performance functional polymers and composites. This volume presents a selection of new approaches in the field of composites and nanomaterials, polymer synthesis and applications, and materials and their properties. Some composites/nanocomposites and interfaces are explored as well, some with medical applications. The authors also look at simulations and modeling, synthesis involving photochemistry, self-assembled hydrogels, and sol-gel processing.

Contains information on international organizations and individual chapters on academic institutions in countries from Afghanistan to Zimbabwe. A comprehensive index is included in both volumes.

Current, comprehensive, and cutting edge, **ENTREPRENEURSHIP: A PROCESS PERSPECTIVE, 2e** equips potential entrepreneurs with the tools and insight for success. With solid theory and relevant examples, this thorough resource covers the entire process of building a business. Seasoned instructors and entrepreneurial authorities, Professors Baron and Shane deliver a practical, applied process approach with a multidisciplinary perspective, drawing on knowledge from the studies of economics, psychology, and other areas. The book begins with recognizing opportunity and building a team, and then moves through assembling finances, the business plan, legal issues, marketing, growth, and exit strategies. Rather than getting bogged down in excessive discussions of theory, Baron and Shane use real-world examples to illustrate how students can apply chapter concepts to their own business ventures. Thoroughly updated and revised based on student and professor feedback, the second edition adds a chapter on legal issues specific to entrepreneurs--including intellectual property considerations--and an appendix on key accounting principles entrepreneurs should know. A new chapter on growth strategies for new ventures is coupled with a chapter on managing new ventures for growth. In addition, new boxed features shed light on common myths and misperceptions about entrepreneurship. The book is also packed with hands-on applications--including a case written specifically for each chapter--giving students experience putting text concepts into real-world action.

With the 13th edition, Wintrobe's Clinical Hematology once again bridges the gap between the clinical practice of hematology and the basic foundations of science. Broken down into eight parts, this book provides readers with a comprehensive overview of: Laboratory Hematology, The Normal Hematologic System, Transfusion Medicine, Disorders of Red Cells, Hemostasis and Coagulation; Benign Disorders of Leukocytes, The Spleen and/or Immunoglobulins; Hematologic Malignancies, and Transplantation. Within these sections, there is a heavy focus on the morphological exam of the peripheral blood smear, bone marrow, lymph nodes, and other tissues. With the knowledge about gene therapy and immunotherapy expanding, new, up-to-date information about the process and application of these therapies is included. Likewise, the editors have completely revised material on stem cell transplantation in regards to both malignant and benign disorders, graft versus host disease, and the importance of long-term follow-up of transplantation survivors. In 2010, esteemed researchers gathered at a workshop held at the Richardson Centre for Functional Foods and Nutraceuticals at the University of Manitoba in Winnipeg, Canada. Drawn from these proceedings, *Canola and Rapeseed: Production, Processing, Food Quality, and Nutrition* presents state-of-the-art information on the chemistry of the minor constituents of canola and rapeseed and their impact on human health. The book also identifies new areas of research and opportunities for the industrial application of functional foods and nutraceuticals from canola and rapeseed. Topics include: The historical development, properties, and performance of canola Characteristics and bioactives of sinapic acid derivatives and the decarboxylation pathways leading to their formation Canola protein processing High omega-9 canola oils and their future applications Modification of Brassica oilseeds Rapid analytical methods for measuring oil content The potential of ultrasound and supercritical fluid extraction for producing value-added by-products The processing of virgin rapeseed oils in Europe Extraction and application of canola protein The frying stability of high-oleic low-linolenic acid canola oils The potential of mustard oil for biodiesel The final chapters demonstrate the health benefits of canola, including antioxidant, antimutagenic, and anticancer properties. Authored by experienced researchers in the field, the book chapters have been expanded considerably to include a number of areas not contained in the original workshop, providing comprehensive coverage of the potential of this essential crop.

Indianapolis, Indiana, 17-18 April 2008

According to reports in the literature, despite the severe disruption of carpal anatomy, fracture-dislocations of the wrist are missed on clinical and radiographic examination in a high percentage of cases. Orthopedic surgeons' lack of familiarity with these injuries is one of the factors contributing to failed or delayed diagnosis. This richly illustrated book covers all types of wrist dislocation and fracture-dislocation. Detailed information is provided on anatomy and biomechanics, while terminology and classification of injuries are explained. Treatment options are thoroughly analysed,

with special emphasis on surgical treatment, which is presented step by step. All of the figures – radiological and surgical – relate to patients treated by the author himself. Most of the cases are from the Red Cross Hospital of Athens that admits many patients with such injuries, in part through referral from other centres due to the author's acknowledged expertise in the field. This volume, with its highly informative and up-to-date chapters and reviews, and a wealth of color figures, will be of great practical value for clinicians and residents in orthopedic surgery, who assist them in daily decision making.

Choice of Law provides an in-depth study of private international law (PIL) as it pertains to the United States. In this book, Symeon C. Symeonides focuses entirely on Choice of Law pertaining to the question of whether the merits of the dispute will be resolved under the substantive law of the state of adjudication (*lex fori*), or under the law of another involved state. Structured in three parts, this book discusses the Federal framework, history, doctrine, methodology, and the practice of choice of law. The author begins with the history of choice-of-law doctrine and follows its subsequent evolution to the present. He then moves on to methodology, and extensively explores the case law of the last fifty years, covering what courts say, and especially what they do. Symeonides goes on to identify emerging decisional patterns and extracts descriptive rules or tentative predictions about likely outcomes.

Provides: over 26,000 academic institutions, 150,000 staff and officials; extensive coverage of universities, colleges and other centres of learning; and detailed information on over 400 international cultural, scientific and educational organizations.

The three-volume set LNCS 9913, LNCS 9914, and LNCS 9915 comprises the refereed proceedings of the Workshops that took place in conjunction with the 14th European Conference on Computer Vision, ECCV 2016, held in Amsterdam, The Netherlands, in October 2016. The three-volume set LNCS 9913, LNCS 9914, and LNCS 9915 comprises the refereed proceedings of the Workshops that took place in conjunction with the 14th European Conference on Computer Vision, ECCV 2016, held in Amsterdam, The Netherlands, in October 2016. 27 workshops from 44 workshops proposals were selected for inclusion in the proceedings. These address the following themes: Datasets and Performance Analysis in Early Vision; Visual Analysis of Sketches; Biological and Artificial Vision; Brave New Ideas for Motion Representations; Joint ImageNet and MS COCO Visual Recognition Challenge; Geometry Meets Deep Learning; Action and Anticipation for Visual Learning; Computer Vision for Road Scene Understanding and Autonomous Driving; Challenge on Automatic Personality Analysis; BioImage Computing; Benchmarking Multi-Target Tracking: MOTChallenge; Assistive Computer Vision and Robotics; Transferring and Adapting Source Knowledge in Computer Vision; Recovering 6D Object Pose; Robust Reading; 3D Face Alignment in the Wild and Challenge; Egocentric Perception, Interaction and Computing; Local

Features: State of the Art, Open Problems and Performance Evaluation; Crowd Understanding; Video Segmentation; The Visual Object Tracking Challenge Workshop; Web-scale Vision and Social Media; Computer Vision for Audio-visual Media; Computer VISION for ART Analysis; Virtual/Augmented Reality for Visual Artificial Intelligence; Joint Workshop on Storytelling with Images and Videos and Large Scale Movie Description and Understanding Challenge.

The European Computing Conference offers a unique forum for establishing new collaborations within present or upcoming research projects, exchanging useful ideas, presenting recent research results, participating in discussions and establishing new academic collaborations, linking university with the industry. Engineers and Scientists working on various areas of Systems Theory, Applied Mathematics, Simulation, Numerical and Computational Methods and Parallel Computing present the latest findings, advances, and current trends on a wide range of topics. This proceedings volume will be of interest to students, researchers, and practicing engineers.

Presents innovative approaches towards affordable, highly efficient, and reliable sustainable energy systems Written by leading experts on the subject, this book provides not only a basic introduction and understanding of conventional fuel cell principle, but also an updated view of the most recent developments in this field. It focuses on the new energy conversion technologies based on both electrolyte and electrolyte-free fuel cells?from advanced novel ceria-based composite electrolyte low temperature solid oxide fuel cells to non-electrolyte fuel cells as advanced fuel-to-electricity conversion technology. Solid Oxide Fuel Cells: From Electrolyte-Based to Electrolyte-Free Devices is divided into three parts. Part I covers the latest developments of anode, electrolyte, and cathode materials as well as the SOFC technologies. Part II discusses the non-electrolyte or semiconductor-based membrane fuel cells. Part III focuses on engineering efforts on materials, technology, devices and stack developments, and looks at various applications and new opportunities of SOFC using both the electrolyte and non-electrolyte principles, including integrated fuel cell systems with electrolysis, solar energy, and more. -Offers knowledge on how to realize highly efficient fuel cells with novel device structures -Shows the opportunity to transform the future fuel cell markets and the possibility to commercialize fuel cells in an extended range of applications -Presents a unique collection of contributions on the development of solid oxide fuel cells from electrolyte based to non-electrolyte-based technology -Provides a more comprehensive understanding of the advances in fuel cells and bridges the knowledge from traditional SOFC to the new concept -Allows readers to track the development from the conventional SOFC to the non-electrolyte or single-component fuel cell Solid Oxide Fuel Cells: From Electrolyte-Based to Electrolyte-Free Devices will serve as an important reference work to students, scientists, engineers, researchers, and technology developers in the fuel cell field.

The Handbook for Chemical Process Research and Development focuses on developing processes for chemical and

pharmaceutical industries. Forty years ago there were few process research and development activities in the pharmaceutical industry, partially due to the simplicity of the drug molecules. However, with the increasing structural complexity, especially the introduction of chiral centers into the drug molecules and strict regulations set by the EMA and FDA, process R&D has become one of the critical departments for pharmaceutical companies. This book assists with the key responsibility of process chemists to develop chemical processes for manufacturing pharmaceutical intermediates and final drug substances for clinical studies and commercial production.

Coccidiosis is one of the most important diseases of livestock, particularly poultry, with billions of dollars spent on prevention worldwide. The disease is so important and pervasive that until recently, all poultry feed was medicated with coccidiostats, mainly antibiotics. With the rapid development of drug resistance, the search is on for alternative methods of control of coccidiosis in poultry. With chapters authored by internationally renowned scientists, this book covers coccidiosis in all major livestock species, including cattle, sheep, and goats. Special emphasis is given to poultry coccidiosis given the significant economic impact, and another chapter looks at intestinal coccidiosis in humans, including *Cyclospora*. Chapters discuss techniques, molecular biology, host-pathogen immunobiology and immunoprophylaxis, genetics and genomics, biology, and chemotherapy. Despite an explosion of research in the last 40 years, there has been no new book published discussing conventional coccidiosis for more than 25 years. This comprehensive review therefore answers an urgent need for a book dealing exclusively with conventional coccidia (*Cystoisospora*, *Cyclospora*). It provides concise, authoritative, up-to-date information on coccidiosis, with particular attention given to research in the last 28 years. This book is essential reading for any practitioner or researcher involved in livestock production, including biologists, veterinarians, parasitologists, and researchers from government, academia, and industry.

Updated concepts and tools to set up project plans, schedule work, monitor progress-and consistently achieve desired project results. In today's time-based and cost-conscious global business environment, tight project deadlines and stringent expectations are the norm. This classic book provides businesspeople with an excellent introduction to project management, supplying sound, basic information (along with updated tools and techniques) to understand and master the complexities and nuances of project management. Clear and down-to-earth, this step-by-step guide explains how to effectively spearhead every stage of a project-from developing the goals and objectives to managing the project team-and make project management work in any company. This updated second edition includes: * New material on the Project Management Body of Knowledge (PMBOK) * Do's and don'ts of implementing scheduling software* Coverage of the PMP certification offered by the Project Management Institute* Updated information on developing problem statements and mission statements* Techniques for implementing today's project management technologies in any

organization-in any industry.

The new edition of this market-leading textbook provides a holistic introduction to the academic study of entrepreneurship and offers practical guidance for prospective entrepreneurs. Adopting a life-cycle view of a business from start-up to maturity, it explores the many stages and forms of entrepreneurship. With an international outlook and expert synthesis of both theoretical foundations and lessons from real-life business practice, the book offers a complete course guide, fostering entrepreneurial talent, thinking and skills. The author's engaging style and unrivalled expertise drawn from a long-ranging career (as an academic, accountant and entrepreneur) make the book accessible and authoritative. This is an ideal textbook for those studying Entrepreneurship or Small Business on undergraduate business or management degree courses, as well as on MBA programmes. It will also appeal to those looking to launch their own businesses. New to this Edition: - Updated international case studies from entrepreneurs and small businesses, ranging from Oman to Australia - First-hand, detailed stories from real-life entrepreneurs in brand new video interviews integrated throughout the text - Increased and integrated coverage of social and civic enterprise and hot topics such as effectuation and lean entrepreneurship

This book is open access under a CC BY 4.0 license. ?This handbook synthesizes and analyzes the growing knowledge base on life course health development (LCHD) from the prenatal period through emerging adulthood, with implications for clinical practice and public health. It presents LCHD as an innovative field with a sound theoretical framework for understanding wellness and disease from a lifespan perspective, replacing previous medical, biopsychosocial, and early genomic models of health. Interdisciplinary chapters discuss major health concerns (diabetes, obesity), important less-studied conditions (hearing, kidney health), and large-scale issues (nutrition, adversity) from a lifespan viewpoint. In addition, chapters address methodological approaches and challenges by analyzing existing measures, studies, and surveys. The book concludes with the editors' research agenda that proposes priorities for future LCHD research and its application to health care practice and health policy. Topics featured in the Handbook include: The prenatal period and its effect on child obesity and metabolic outcomes. Pregnancy complications and their effect on women's cardiovascular health. A multi-level approach for obesity prevention in children. Application of the LCHD framework to autism spectrum disorder. Socioeconomic disadvantage and its influence on health development across the lifespan. The importance of nutrition to optimal health development across the lifespan. The Handbook of Life Course Health Development is a must-have resource for researchers, clinicians/professionals, and graduate students in developmental psychology/science; maternal and child health; social work; health economics; educational policy and politics; and medical law as well as many interrelated subdisciplines in psychology, medicine, public health, mental health, education, social welfare,

economics, sociology, and law.

Africa can achieve self sufficiency in food production through adoption of innovations in the agriculture sector. Numerous soil fertility and crop production technologies have been generated through research, however, wide adoption has been low. African farmers need better technologies, more sustainable practices, and fertilizers to improve and sustain their crop productivity and to prevent further degradation of agricultural lands. The agricultural sector also needs to be supported by functional institutions and policies that will be able to respond to emerging challenges of globalization and climate change.

Introduction to Business covers the scope and sequence of most introductory business courses. The book provides detailed explanations in the context of core themes such as customer satisfaction, ethics, entrepreneurship, global business, and managing change. Introduction to Business includes hundreds of current business examples from a range of industries and geographic locations, which feature a variety of individuals. The outcome is a balanced approach to the theory and application of business concepts, with attention to the knowledge and skills necessary for student success in this course and beyond.

This book introduces and develops the differential and integral calculus of functions of one variable.

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