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**Fraud Analytics** Delena D. Spann 2014-07-22 Proven guidance for expertly using analytics in fraud examinations, financial analysis, auditing and fraud prevention Fraud Analytics thoroughly reveals the elements of analysis that are used in today's fraud examinations, fraud investigations, and financial crime investigations. This valuable resource reviews the types of analysis that should be considered prior to beginning an investigation and explains how to optimally use data mining techniques to detect fraud.

Packed with examples and sample cases illustrating pertinent concepts in practice, this book also explores the two major data analytics providers:

ACL and IDEA. Looks at elements of analysis used in today's fraud examinations Reveals how to use data mining (fraud analytic) techniques to detect fraud Examines ACL and IDEA as indispensable tools for fraud detection Includes an abundance of sample cases and examples Written by Delena D Spann, Board of Regent (Emeritus) for the Association of Certified Fraud Examiners (ACFE), who currently serves as Advisory Board Member of the Association of Certified Fraud Examiners, Board Member of the Education Task Force of the Association of Certified Anti-Money Laundering Specialists ASIS International (Economic Crime Council) and Advisory Board Member of the Robert Morris University (School of Business), Fraud Analytics equips you with authoritative fraud analysis techniques you can put to use right away.

**The Hockey Stick and the Climate Wars** Michael E. Mann 2013-10-01 The ongoing assault on climate science in the United States has never been more aggressive, more blatant, or more widely publicized than in the case of the Hockey Stick graph—a clear and compelling visual presentation of scientific data, put together by Michael E. Mann and his colleagues, demonstrating that global temperatures have risen in conjunction with the increase in industrialization and the use of fossil fuels. Here was an easy-to-understand graph that, in a glance, posed a threat to major corporate energy interests and those who do their political bidding. The stakes were simply too high to ignore the Hockey Stick—and so began a relentless attack on a body of science and on the investigators whose work formed its scientific basis. The Hockey Stick achieved prominence in a 2001 UN report on climate change and quickly became a central icon in the “climate wars.” The real issue has never been the graph’s data but rather its

implied threat to those who oppose governmental regulation and other restraints to protect the environment and planet. Mann, lead author of the original paper in which the Hockey Stick first appeared, shares the story of the science and politics behind this controversy. He reveals key figures in the oil and energy industries and the media front groups who do their bidding in sometimes slick, sometimes bare-knuckled ways. Mann concludes with the real story of the 2009 “Climategate” scandal, in which climate scientists’ emails were hacked. This is essential reading for all who care about our planet’s health and our own well-being.

**Topological Insulators** C. Brüne 2013-11-23 This chapter will focus on the experimental properties of the quantum spin Hall effect in HgTe quantum well structures. HgTe quantum wells above a critical thickness are 2-dimensional topological insulators. The most prominent signature of the non-trivial topology in these systems is the occurrence of the quantum spin Hall effect when the Fermi energy is located inside the bulk band gap. We will present the main experimental results we obtained for transport in the quantum spin Hall regime and discuss how they confirm the prediction of the quantum spin Hall effect as a helical edge state system consisting of two counterpropagating oppositely spin polarized edge states.

**English as a Global Language** David Crystal 2012-03-29 David Crystal's classic English as a Global Language considers the history, present status and future of the English language, focusing on its role as the leading international language. English has been deemed the most 'successful' language ever, with 1500 million speakers internationally, presenting a difficult task to those who wish to investigate it in its entirety. However, Crystal explores the subject in a measured but engaging way, always backing up observations with facts and figures. Written in a detailed and fascinating manner, this is a book written by an expert both for specialists in the subject and for general readers interested in the English language.

**Thermoforming of Single and Multilayer Laminates** Syed Ali Ashter 2013-11-07 Thermoforming of Single and Multilayer Laminates explains the fundamentals of lamination and plastics thermoforming technologies along with current and new developments. It focuses on properties and thermoforming mechanics of plastic films and in particular single and multilayered laminates, including barrier films. For environmental and economic reasons, laminates are becoming increasingly important as a

replacement for solid sheets and paint finishes in many industries, including transportation, packaging, and construction. Yet the processes of film formability during the extensive deformation and elevated temperatures experienced in conventional processing technologies, such as thermoforming, are poorly understood by most engineers. This book covers production processes, such as extrusion, calendaring, and casting, as well as mechanical and impact testing methods. It also describes how testing protocols developed for metals can be leveraged for plastic films and laminates, and includes a thorough discussion on methods for performing optical strain analysis. Applications in transportation vehicles and packaging, including packaging for food, medical and electronics applications, sports equipment, and household appliances, are discussed. Safety, recycling and environmental aspects of thermoforming and its products complete the book. First comprehensive source of information and hands-on guide for the thermoforming of multilayered laminates Covers applications across such sectors as automotive, packaging, home goods, and construction Introduces new testing methods leveraging protocols used for metals

#### Handbook of Organic Materials for Electronic and Photonic Devices

Oksana Ostroverkhova 2018-11-30 Handbook of Organic Materials for Electronic and Photonic Devices, Second Edition, provides an overview of the materials, mechanisms, characterization techniques, structure-property relationships, and most promising applications of organic materials. This new release includes new content on emerging organic materials, expanded content on the basic physics behind electronic properties, and new chapters on organic photonics. As advances in organic materials design, fabrication, and processing that enabled charge unprecedented carrier mobilities and power conversion efficiencies have made dramatic advances since the first edition, this latest release presents a necessary understanding of the underlying physics that enabled novel material design and improved organic device design. Provides a comprehensive overview of the materials, mechanisms, characterization techniques, and structure property relationships of organic electronic and photonic materials Reviews key applications, including organic solar cells, light-emitting diodes electrochemical cells, sensors, transistors, bioelectronics, and memory devices New content to reflect latest advances in our understanding of underlying physics to enable material design and device fabrication

**World Migration Report 2020** United Nations 2019-11-27 Since 2000, IOM has been producing world migration reports. The World Migration Report 2020, the tenth in the world migration report series, has been produced to contribute to increased understanding of migration throughout the world. This new edition presents key data and information on migration as well as thematic chapters on highly topical migration issues, and is structured to focus on two key contributions for readers: Part I: key information on migration and migrants (including migration-related statistics); and Part II: balanced, evidence-based analysis of complex and

emerging migration issues.

**Wearable Sensors** Edward Sazonov 2014-08-14 Written by industry experts, this book aims to provide you with an understanding of how to design and work with wearable sensors. Together these insights provide the first single source of information on wearable sensors that would be a valuable addition to the library of any engineer interested in this field. Wearable Sensors covers a wide variety of topics associated with the development and application of various wearable sensors. It also provides an overview and coherent summary of many aspects of current wearable sensor technology. Both industry professionals and academic researchers will benefit from this comprehensive reference which contains the most up-to-date information on the advancement of lightweight hardware, energy harvesting, signal processing, and wireless communications and networks. Practical problems with smart fabrics, biomonitoring and health informatics are all addressed, plus end user centric design, ethical and safety issues. Provides the first comprehensive resource of all currently used wearable devices in an accessible and structured manner. Helps engineers manufacture wearable devices with information on current technologies, with a focus on end user needs and recycling requirements. Combines the expertise of professionals and academics in one practical and applied source.

**Underneath the Bragg Peaks** Takeshi Egami 2003 This book describes a technique of structural study, the atomic-pair distribution function analysis. This is a relatively new technique, with a strong promise of wide application in the study of the local structure of crystalline materials and materials science in general.

**Adapting to Climate Change** W. Neil Adger 2009-06-25 This book presents the latest science and social science research on whether the world can adapt to climate change.

Ordinary Level Physics A. F. Abbott 1977

*Diffusion MRI* Heidi Johansen-Berg 2013-11-26 This title covers the field of diffusion imaging from the fundamental theory to its most cutting-edge applications. It contains sufficient detail to be a reference book for medical physicists, but also covers aspects of experimental design and example applications that will be of interest to clinical and basic neuroscientists. (Neuroscience)

*Yearbook of International Organizations 2013-2014* Union of International Associations 2013-06-21 Volume 1 (A and B) of the Yearbook of International Organizations covers international organizations throughout the world, comprising their aims, activities and events

*African Laughter* Doris Lessing 1992 The British author writes about her homeland--from which she was exiled by the former all-white government--discussing political corruption, AIDS, communal living, and much more. By the author of *The Fifth Child*. 35,000 first printing. \$35,000 ad/promo. Tour. *Innovations in the Industrial Internet of Things (IIoT) and Smart Factory* Goundar, Sam 2021-01-22 Industrial internet of things (IIoT) is changing

the face of industry by completely redefining the way stakeholders, enterprises, and machines connect and interact with each other in the industrial digital ecosystem. Smart and connected factories, in which all the machinery transmits real-time data, enable industrial data analytics for improving operational efficiency, productivity, and industrial processes, thus creating new business opportunities, asset utilization, and connected services. IIoT leads factories to step out of legacy environments and arcane processes towards open digital industrial ecosystems. Innovations in the Industrial Internet of Things (IIoT) and Smart Factory is a pivotal reference source that discusses the development of models and algorithms for predictive control of industrial operations and focuses on optimization of industrial operational efficiency, rationalization, automation, and maintenance. While highlighting topics such as artificial intelligence, cyber security, and data collection, this book is ideally designed for engineers, manufacturers, industrialists, managers, IT consultants, practitioners, students, researchers, and industrial industry professionals.

**Textile Technology and Design** Abdulkarim Macar 2016-10-01 Textile as a material of daily use has been there for ages now and as an industry, it is one of the promising industries. Textile Industry will always be there as clothes are one of the basic human necessities. For making textile, there is always the need of textile designers who design the textiles. Textile design is basically the process of creating designs for knitted, woven or printed fabrics. Fabrics can be made by weaving and knitting and can be given basic decoration through printing. Textile designing is a technical process including different methods for production of textile. It includes both- surface design and structural design of a textile. Textile designer must have knowledge of yarn making, weaving, knitting, dyeing, finishing processes, and also knowledge about different types of looms, knitting machines, and printing processes. The designer's deep understanding of the technical aspects of production and the properties of fibers, yarns, and textile dyes help him in visualizing the end product. Textile Technology and Design describes the strategies and technologies that have propelled the forefront of apparel textile innovation. The concept of the textile technologies is intricately related to both, the manufacture and decoration. It addresses the critical role of the interior at the intersection of design and technology, with a range of interdisciplinary arguments by a wide range of contributors: from design practitioners to researchers and scholars.

**Emergency Triage** Kevin Mackway-Jones 2014-02-03 The Manchester Triage System (MTS) is the most widely used triage system in the UK, Europe and Australia, with tens of millions of patients being processed through hospital emergency departments. It is also used in hospitals throughout Brazil. Emergency Triage is the core text for the MTS, which utilises a risk averse system of prioritisation for patients in all unscheduled care settings. As such, it is an essential text for all emergency department staff using the MTS, in particular triage nurses. The book is both a training tool and a reference for daily use in the Emergency Department and

prehospital settings. This edition features revised protocols that reflect new approaches to prioritisation, with accompanying revised flowcharts - the core part of the book. Table of Contents Presentation flow charts index 1: Introduction 2: The decision-making process and triage 3: The triage method 4: Pain assessment as part of the triage process 5: Patient management, triage and the triage nurse 6: Auditing the triage process 7: Telephone triage 8: Beyond prioritisation to other applications

**The Economic Impact of Climate Change on Kenyan Crop Agriculture: A Ricardian Approach** Jane Kabubo-Mariara 2007

**Graphene** Jamie H. Warner 2012-11-17 Providing fundamental knowledge necessary to understand graphene's atomic structure, band-structure, unique properties and an overview of groundbreaking current and emergent applications, this new handbook is essential reading for materials scientists, chemists and physicists. Since the 2010 physics Nobel Prize awarded to Geim and Novosolev for their groundbreaking work isolating graphene from bulk graphite, there has been a huge surge in interest in the area. This has led to a large number of news books on graphene. However, for such a vast inflow of new entrants, the current literature is surprisingly slight, focusing exclusively on current research or books on previous "hot topic" allotropes of carbon. This book covers fundamental groundwork of the structure, property, characterization methods and applications of graphene, along with providing the necessary knowledge of graphene's atomic structure, how it relates to its band-structure and how this in turn leads to the amazing properties of graphene. And so it provides new graduate students and post-docs with a resource that equips them with the knowledge to undertake their research.

Discusses graphene's fundamental structure and properties, acting as a time-saving handbook for validated research Demonstrates 100+ high-quality graphical representations, providing the reader with clear images to convey complex situations Reviews characterization techniques relevant to grapheme, equipping the reader with experimental knowledge relevant for practical use rather than just theoretical understanding

**Combustion** Irvin Glassman 2014-12-02 Throughout its previous four editions, Combustion has made a very complex subject both enjoyable and understandable to its student readers and a pleasure for instructors to teach. With its clearly articulated physical and chemical processes of flame combustion and smooth, logical transitions to engineering applications, this new edition continues that tradition. Greatly expanded end-of-chapter problem sets and new areas of combustion engineering applications make it even easier for students to grasp the significance of combustion to a wide range of engineering practice, from transportation to energy generation to environmental impacts. Combustion engineering is the study of rapid energy and mass transfer usually through the common physical phenomena of flame oxidation. It covers the physics and chemistry of this process and the engineering applications—including power generation in internal combustion automobile engines and gas turbine engines.

Renewed concerns about energy efficiency and fuel costs, along with continued concerns over toxic and particulate emissions, make this a crucial area of engineering. New chapter on new combustion concepts and technologies, including discussion on nanotechnology as related to combustion, as well as microgravity combustion, microcombustion, and catalytic combustion—all interrelated and discussed by considering scaling issues (e.g., length and time scales) New information on sensitivity analysis of reaction mechanisms and generation and application of reduced mechanisms Expanded coverage of turbulent reactive flows to better illustrate real-world applications Important new sections on stabilization of diffusion flames—for the first time, the concept of triple flames will be introduced and discussed in the context of diffusion flame stabilization

**Indigenous knowledge systems and climate change management in Africa**  
Ajayi, O.C. (ed) 2017-11-15 Climate change presents a profound challenge to food security and sustainable development in Africa. Its negative impacts are likely to be greatest in the African region, which is already food insecure. In the face of global climate change and its emerging challenges and unknowns, it is essential that decision makers base policies on the best available knowledge. In recent years, the knowledge of local and indigenous people, often referred to as indigenous knowledge (IK) has been increasingly recognised as an important source of climate knowledge and adaptation strategies.

**Salinity Gradient Heat Engines** Alessandro Tamburini 2021-11-03 Salinity Gradient Heat Engines classifies all the existing SGHEs and presents an in-depth analysis of their fundamentals, applications and perspectives. The main SGHEs analyzed in this publication are Osmotic, the Reverse Electrodialysis, and the Accumulator Mixing Heat Engines. The production and regeneration unit of both cycles are described and analyzed alongside the related economic and environmental aspects. This approach provides the reader with very thorough knowledge on how these technologies can be developed and implemented as a low-impact power generation technique, wherever low-temperature waste-heat is available. This book will also be a very beneficial resource for academic researchers and graduate students across various disciplines, including energy engineering, chemical engineering, chemistry, physics, electrical and mechanical engineering. Focuses on advanced, yet practical, recovery of waste heat via salinity gradient heat engines Outlines the existing salinity gradient heat engines and discusses fundamentals, potential and perspectives of each of them Includes economics and environmental aspects Provides an innovative reference for all industrial sectors involving processes where low-temperature waste-heat is available.

**Plastics in Medical Devices** Vinny R. Sastri 2010-03-05 No book has been published that gives a detailed description of all the types of plastic materials used in medical devices, the unique requirements that the materials need to comply with and the ways standard plastics can be

modified to meet such needs. This book will start with an introduction to medical devices, their classification and some of the regulations (both US and global) that affect their design, production and sale. A couple of chapters will focus on all the requirements that plastics need to meet for medical device applications. The subsequent chapters describe the various types of plastic materials, their properties profiles, the advantages and disadvantages for medical device applications, the techniques by which their properties can be enhanced, and real-world examples of their use. Comparative tables will allow readers to find the right classes of materials suitable for their applications or new product development needs.

**A participatory approach for hydrometeorological monitoring in the Blue Nile River Basin of Ethiopia** Zemadim, B. 2014-04-08 Participatory research is increasingly recognized as being useful for conducting multiple activities in research for development projects. The co-learning environment created in participatory research helps to identify existing social and technological gaps, and develop possible solutions to improve the livelihoods of rural communities. This report describes a participatory approach used in the establishment and implementation of hydrometeorological monitoring networks in the Blue Nile River Basin of Ethiopia. The networks were established with the involvement of rural communities and other stakeholders to gain insights into the hydrological processes of the watersheds, in order to improve rainwater management strategies. Local people were involved in the day-to-day management and maintenance of the networks. The participatory approach proved beneficial for several reasons, not least, because it instilled trust and goodwill amongst the communities.

**Population Growth and Rapid Urbanization in the Developing World**  
Benna, Umar G. 2016-06-07 As the global population continues to boom, particularly in the developing countries, it has become necessary to find ways to handle this increase through various policy tools that address population growth and urbanization problems. The urbanization process has both potentials issues as well as opportunities to move societies forward that need to be exploited. Population Growth and Rapid Urbanization in the Developing World examines trends, challenges, issues and strategies adopted by developing countries in the face of population growth and rapid urbanization and its impact on urban environments. The book explores patterns of population growth and urbanization, use of different governance approaches in addressing challenges, as well as different tools and systems of appropriate allocation to address issues. The book is a comprehensive reference for academicians, students, practitioners, professionals, managers, urban planners and government officials.

**Martha Quest** Doris Lessing 1991

**Clinical Engineering** Azzam Taktak 2019-12-01 Clinical Engineering: A Handbook for Clinical and Biomedical Engineers, Second Edition, helps professionals and students in clinical engineering successfully deploy

medical technologies. The book provides a broad reference to the core elements of the subject, drawing from a range of experienced authors. In addition to engineering skills, clinical engineers must be able to work with both patients and a range of professional staff, including technicians, clinicians and equipment manufacturers. This book will not only help users keep up-to-date on the fast-moving scientific and medical research in the field, but also help them develop laboratory, design, workshop and management skills. The updated edition features the latest fundamentals of medical technology integration, patient safety, risk assessment and assistive technology. Provides engineers in core medical disciplines and related fields with the skills and knowledge to successfully collaborate on the development of medical devices, via approved procedures and standards Covers US and EU standards (FDA and MDD, respectively, plus related ISO requirements) Includes information that is backed up with real-life clinical examples, case studies, and separate tutorials for training and class use Completely updated to include new standards and regulations, as well as new case studies and illustrations

Cambridge International AS and A Level Biology C. J. Clegg 2015-01-30

This title covers the entire syllabus for Cambridge International Examinations' International AS and A Level Biology (9700). It is divided into separate sections for AS and A Level making it ideal for students studying both the AS and the A Level and also those taking the AS examinations at the end of their first year. - Explains difficult concepts using language that is appropriate for students around the world - Provides practice throughout the course with carefully selected past paper questions at the end of each chapter We are working with Cambridge International Examinations to gain endorsement for this title.

**Future Energy** Trevor M. Letcher 2008-07-30 Future Energy will allow us to make reasonable, logical and correct decisions on our future energy as a result of two of the most serious problems that the civilized world has to face; the looming shortage of oil (which supplies most of our transport fuel) and the alarming rise in atmospheric carbon dioxide over the past 50 years (resulting from the burning of oil, gas and coal and the loss of forests) that threatens to change the world's climate through global warming. Future Energy focuses on all the types of energy available to us, taking into account a future involving a reduction in oil and gas production and the rapidly increasing amount of carbon dioxide in our atmosphere. It is unique in the genre of books of similar title in that each chapter has been written by a scientist or engineer who is an expert in his or her field. The book is divided into four sections: • Traditional Fossil Fuel and Nuclear Energy • Renewable Energy • Potentially Important New Types of Energy • New Aspects to Future Energy Usage Each chapter highlights the basic theory and implementation, scope, problems and costs associated with a particular type of energy. The traditional fuels are included because they will be with us for decades to come - but, we hope, in a cleaner form. The renewable energy types includes wind power, wave

power, tidal energy, two forms of solar energy, bio-mass, hydroelectricity, geothermal and the hydrogen economy. Potentially important new types of energy include: pebble bed nuclear reactors, nuclear fusion, methane hydrates and recent developments in fuel cells and batteries. - Written by experts in the key future energy disciplines from around the globe - Details of all possible forms of energy that are and will be available globally in the next two decades - Puts each type of available energy into perspective with realistic, future options

**The Elements of Journalism** Bill Kovach 2001 The authors outline the main principles of journalism, discussing the ethical and professional issues affecting the work of newspeople, the forces shaping the profession, and the future of journalism. Reprint. 25,000 first printing.

Alfred and Emily Doris Lessing 2008 "In this book, the 2007 Nobel Laureate Doris Lessing explores the lives of her parents, each irrevocably damaged by the Great War. Her father wanted the simple life of an English farmer, but shrapnel almost killed him in the trenches, and thereafter he had to wear a wooden leg. Her mother, Emily, spent the war nursing the wounded in the Royal Free Hospital after her great love, a doctor, drowned in the Channel." "In the fictional first half of *Alfred and Emily*, Doris Lessing imagines the happier lives her parents might have made for themselves had there been no war; a story that begins with their meeting at a village cricket match outside Colchester. This is followed by a piercing examination of their relationship as it actually was in the shadow of the Great War, of the family's move to Africa, and of the impact of her parents' marriage on a young woman growing up in a strange land."--  
BOOK JACKET.

*Thin Film Solar Cells From Earth Abundant Materials* Subba Ramaiah Kodigala 2013-11-14 The fundamental concept of the book is to explain how to make thin film solar cells from the abundant solar energy materials by low cost. The proper and optimized growth conditions are very essential while sandwiching thin films to make solar cell otherwise secondary phases play a role to undermine the working function of solar cells. The book illustrates growth and characterization of  $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$  thin film absorbers and their solar cells. The fabrication process of absorber layers by either vacuum or non-vacuum process is readily elaborated in the book, which helps for further development of cells. The characterization analyses such as XPS, XRD, SEM, AFM etc., lead to tailor the physical properties of the absorber layers to fit well for the solar cells. The role of secondary phases such as  $\text{ZnS}$ ,  $\text{Cu}_2\text{-xS}$ ,  $\text{SnS}$  etc., which are determined by XPS, XRD or Raman, in the absorber layers is promptly discussed. The optical spectroscopy analysis, which finds band gap, optical constants of the films, is mentioned in the book. The electrical properties of the absorbers deal the influence of substrates, growth temperature, impurities, secondary phases etc. The low temperature I-V and C-V measurements of  $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$  thin film solar cells are clearly described. The solar cell parameters such as efficiency, fill factor,

series resistance, parallel resistance provide handful information to understand the mechanism of physics of thin film solar cells in the book. The band structure, which supports to adjust interface states at the p-n junction of the solar cells is given. On the other hand the role of window layers with the solar cells is discussed. The simulation of theoretical efficiency of  $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$  thin film solar cells explains how much efficiency can be experimentally extracted from the cells. One of the first books exploring how to conduct research on thin film solar cells, including reducing costs Detailed instructions on conducting research

*Transnational Land Grabs and Restitution in an Age of the (De-)Militarised New Scramble for Africa: A Pan African Socio-Legal Warikandwa, Tapiwa V.* 2017-09-26 One of the fundamental challenges in deconstructing, rethinking and remaking the world from a Pan African vantage point is that some captives have tended to delight in the warmth of the [imperial] predator's mouth. In other words, some captives forget that the imperial predator's mouth gets warm because empire is eating and heating up from prey on the continent. (De-)Militarisation, Transnational Land Grabs and Restitution in an Age of the New Scramble for Africa: A Pan African Socio-Legal Perspective is a book that knocks on key aspects relating to land, militarisation, a PostAfrican World Order and a chaotic Post-God World Order, which require critical scholarly and policy attention in the quest to free Africa from centuries-old imperial depredations. The book carefully navigates the imperial entrapments which are designed to focus African attention only on decolonising African minds without also engaging in the [imperially more unsettling] decolonisation of African materialities.

**Global Innovation Index 2020** Cornell University 2020-08-13 The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

*Cleaning with Solvents: Science and Technology* John Durkee 2013-11-29 High-precision cleaning is required across a wide range of sectors, including aerospace, defense, medical device manufacturing, pharmaceutical processing, semiconductor/electronics, etc. Cleaning parts and surfaces with solvents is simple, effective and low-cost. Although health and safety and environmental concerns come into play with the use of solvents, this book explores how safe and compliant solvent-based cleaning techniques can be implemented. A key to this is the selection of the right solvent. The author also examines a range of newer "green" solvent cleaning options. This book supplies scientific fundamentals and practical guidance supported by real-world examples. Durkee explains the

three principal methods of solvent selection: matching of solubility parameters, reduction of potential for smog formation, and matching of physical properties. He also provides guidance on the safe use of aerosols, wipe-cleaning techniques, solvent stabilization, economics, and many other topics. A compendium of blend rules is included, covering the physical, chemical, and environmental properties of solvents. Three methods explained in detail for substitution of suitable solvents for those unsuitable for any reason: toxic solvents don't have to be tolerated; this volume explains how to do better Enables users to make informed judgments about their selection of cleaning solvents for specific applications, including solvent replacement decisions Explains how to plan and implement solvent cleaning systems that are effective, economical and compliant with regulations

Small reservoirs in Africa: a review and synthesis to strengthen future investment Saruchera, D. 2019-11-04

Neutron Scattering - Magnetic and Quantum Phenomena 2015-11-29

Neutron Scattering - Magnetic and Quantum Phenomena provides detailed coverage of the application of neutron scattering in condensed matter research. The book's primary aim is to enable researchers in a particular area to identify the aspects of their work where neutron scattering techniques might contribute, conceive the important experiments to be done, assess what is required to carry them out, write a successful proposal for one of the major user facilities, and perform the experiments under the guidance of the appropriate instrument scientist. An earlier series edited by Kurt Sköld and David L. Price, and published in the 1980s by Academic Press as three volumes in the series Methods of Experimental Physics, was very successful and remained the standard reference in the field for several years. This present work has similar goals, taking into account the advances in experimental techniques over the past quarter-century, for example, neutron reflectivity and spin-echo spectroscopy, and techniques for probing the dynamics of complex materials of technological relevance. This volume complements Price and Fernandez-Alonso (Eds.), Neutron Scattering - Fundamentals published in November 2013. Covers the application of neutron scattering techniques in the study of quantum and magnetic phenomena, including superconductivity, multiferroics, and nanomagnetism Presents up-to-date reviews of recent results, aimed at enabling the reader to identify new opportunities and plan neutron scattering experiments in their own field Provides a good balance between theory and experimental techniques Provides a complement to Price and Fernandez-Alonso (Eds.), Neutron Scattering - Fundamentals published in November 2013

**\$10,000 Gold** Nick Barisheff 2013-04-03

**Water is Life** Hellum, Anne 2015-10-19 This book approached water and sanitation as an African gender and human rights issue. Empirical case studies from Kenya, Malawi, South Africa and Zimbabwe show how coexisting international, national and local regulations of water and

sanitation respond to the ways in which different groups of rural and urban women gain access to water for personal, domestic and livelihood purposes. The authors, who are lawyers, sociologists, political scientists and anthropologists, explore how women cope in contexts where they lack secure rights, and participation in water governance institutions, formal and informal. The research shows how women - as producers of family food - rely on water from multiple sources that are governed by community based norms and institutions which recognise the right to water for livelihood. How these 'common pool water resources' - due to protection gaps in both international and national law - are threatened by large-scale development and commercialisation initiatives, facilitated through national permit systems, is a key concern. The studies demonstrate that existing water governance structures lack mechanisms which make them accountable to poor and vulnerable water users on the ground, most importantly women. The findings thus underscore the need to intensify measures to hold states

accountable, not just in water services provision, but in assuring the basic human right to clean drinking water and sanitation; and also to protect water for livelihoods.

**Reading in the mobile era** West, Mark 2014-04-28 Millions of people do not read for one reason: they do not have access to text. But mobile phones and cellular networks are transforming a scarce resource into an abundant one. Drawing on the analysis of over 4,000 surveys collected in seven developing countries and corresponding qualitative interviews, this report paints a detailed picture of who reads books and stories on mobile devices and why. The findings illuminate, for the first time, the habits, beliefs and profiles of mobile readers in developing countries. This information points to strategies to expand mobile reading and, by extension, the educational and socio-economic benefits associated with increased reading. Mobile technology can advance literacy and learning in underserved communities around the world. This report shows how.