

Zimsec Physics Paper 2 November 2013

Yeah, reviewing a books Zimsec Physics Paper 2 November 2013 could go to your near contacts listings. This is just one of the solutions for you to be successful. As understood, endowment does not recommend that you have fabulous points.

Comprehending as competently as harmony even more than supplementary will meet the expense of each success. bordering to, the publication as with ease as perspicacity of this Zimsec Physics Paper 2 November 2013 can be taken as skillfully as picked to act.

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.

The Elements of Journalism Bill Kovach 2001-07-24 In July 1997, twenty-five of America's most influential journalists sat down to try and discover what had happened to their profession in the years between Watergate and Whitewater. What they knew was that the public no longer trusted the press as it once had. They were keenly aware of the pressures that advertisers and new technologies were putting on newsrooms around the country. But, more than anything, they were aware that readers, listeners, and viewers — the people who use the news — were turning away from it in droves. There were many reasons for the public's growing lack of trust. On television, there were the ads that looked like news shows and programs that presented gossip and press releases as if they were news. There were the "docudramas," television movies that were an uneasy blend of fact and fiction and which purported to show viewers how events had "really" happened. At newspapers and magazines, celebrity was replacing news, newsroom budgets were being slashed, and editors were pushing journalists for more "edge" and "attitude" in place of reporting. And, on the radio, powerful talk personalities led their listeners from sensation to sensation, from fact to fantasy, while deriding traditional journalism. Fact was blending with fiction, news with entertainment, journalism with rumor. Calling themselves the Committee of Concerned Journalists, the twenty-five determined to find how the news had found itself in this state. Drawn from the committee's years of intensive research, dozens of surveys of readers, listeners, viewers, editors, and journalists, and more than one hundred intensive interviews with journalists and editors, The Elements of Journalism is the first book ever to spell out — both for those who create and those who consume the news — the principles and responsibilities of journalism. Written by Bill Kovach and Tom Rosenstiel, two of the nation's preeminent press critics, this is one of the most provocative books about the role of information in society in more than a generation and one of the most important ever written about news. By offering in turn each of the principles that should govern reporting, Kovach and Rosenstiel show how some of the most common conceptions about the press, such as neutrality, fairness, and balance, are actually modern misconceptions. They also spell out how the news should be gathered, written, and reported even as they demonstrate why the First Amendment is on the brink of becoming a commercial right rather than something any American citizen can enjoy. The Elements of Journalism is already igniting a national dialogue on issues vital to us all. This book will be the starting point for discussions by journalists and members of the public about the nature of journalism and the access that we all enjoy to information for years to come.

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

Topological Insulators 2013-11-23 Topological Insulators, volume six in the Contemporary Concepts of Condensed Matter Series, describes the recent revolution in condensed matter physics that occurred in our understanding of crystalline solids. The book chronicles the work done worldwide that led to these discoveries and provides the reader with a comprehensive overview of the field. Starting in 2004, theorists began to explore the effect of topology on the physics of band insulators, a field previously considered well understood. However, the inclusion of topology brings key new elements into this old field. Whereas it was thought that all band insulators are essentially equivalent, the new theory predicts two distinct classes of band insulators in two spatial dimensions and 16 classes in three dimensions. These "topological" insulators exhibit a host of unusual physical properties, including topologically protected gapless surface states and exotic electromagnetic response, previously thought impossible in such systems. Within a short time, this new state of quantum matter, topological insulators, has been discovered experimentally both in 2D thin film structures and in 3D crystals and alloys. It appears that topological insulators are quite common in nature, and there are dozens of confirmed substances that exhibit this behavior. Theoretical and experimental studies of these materials are ongoing with the goal of attaining the fundamental understanding and exploiting them in future practical applications. Usable as a textbook for graduate students and as a reference resource for professionals Includes the most recent discoveries and visions for future technological applications All authors are prominent in the field 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.

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

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.

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.

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

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 Novoselov 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 graphene, equipping the reader with experimental knowledge relevant for practical use rather than just theoretical understanding

The Forensic Examination and Interpretation of Tool Marks David Baldwin 2013-09-23 The Forensic Examination and Interpretation of ToolMarks brings together key techniques and developments in the field of tool marks in forensic science and explains clearly how tool mark analysis can be used within forensic investigation. The purpose of this book is to bring together as much of this information as possible in an accessible manner. The book deals with all aspects of tool mark evidence from crime scene to courtroom. The examination of a wide variety of different toolmarks are discussed, including those made by specific tools such as saws and in complex materials such as bone. The general principles and techniques used in tool mark examinations can also be applied to some other closely related fields. Therefore, sections on the examination of manufacturing marks, including those on plastic film items, and physical fit comparisons are also included. The book will be of interest to a wide range of people and not just to tool mark examiners and people studying forensic science. It will be of use to crime scene examiners, officers investigating crimes where tool marks are found and members of the legal professions. Brings together key techniques and developments within the field of tool mark investigation. Includes material on examining tool marks at the crime scene and in the laboratory, interpretation and evaluation issues and how tool mark evidence should be presented in court. Covers specialized tool mark examinations, manufacturing marks, including those on plastic film items, and physical fits. Includes a large range of illustrations and photographs. Invaluable reference for practicing forensic scientists, students of forensic sciences, members of the legal professions and crime scene investigators, enabling them to recognise the importance of tool marks within an investigation. An extremely valuable resource in the on-going debate regarding the evidential value of tool marks in court. Part of the 'Essentials in Forensic Science' book series.

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.

Ordinary Level Physics A. F. Abbott 1977

Writing Scientific Research Articles Margaret Cargill 2011-09-13 "Margaret Cargill's background as a linguist and research communications educator and Patrick O'Connor's experience as both research scientist and educator synergize to improve both the science and art of scientific writing. If the authors' goal is to give scientists the tools to write and publish compelling, well documented, clear narratives that convey their work honestly and in proper context, they have succeeded admirably." Veterinary Pathology, July 2009 "[The book is] clearly written, has a logical step-by-step structure, is easy to read and contains a lot of sensible advice about how to get scientific work published in international journals. The book is a most useful addition to the literature covering scientific writing."

Aquaculture International, April 2009 Writing Scientific Research Articles: Strategy and Steps guides authors in how to write, as well as what to write, to improve their chances of having their articles accepted for publication in international, peer reviewed journals. The book is designed for scientists who use English as a first or an additional language; for research students and those who teach them paper writing skills; and for early-career researchers wanting to hone their skills as authors and mentors. It provides clear processes for

selecting target journals and writing each section of a manuscript, starting with the results. The stepwise learning process uses practical exercises to develop writing and data presentation skills through analysis of well-written example papers. Strategies are presented for responding to referee comments, as well as ideas for developing discipline-specific English language skills for manuscript writing. The book is designed for use by individuals or in a class setting. Visit the companion site at www.writersresearch.com.au for more information.

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.

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.

Solar Cell Device Physics Stephen Fonash 2012-12-02 Solar Cell Device Physics offers a balanced, in-depth qualitative and quantitative treatment of the physical principles and operating characteristics of solar cell devices. Topics covered include photovoltaic energy conversion and solar cell materials and structures, along with homojunction solar cells. Semiconductor-semiconductor heterojunction cells and surface-barrier solar cells are also discussed. This book consists of six chapters and begins by introducing the reader to the basic physical principles and materials properties that are the foundations of photovoltaic energy conversion, with emphasis on various photovoltaic devices capable of efficiently converting solar energy into usable electrical energy. The electronic and optical properties of crystalline, polycrystalline, and amorphous materials with both organic and inorganic materials are considered, together with the manner in which these properties change from one material class to another and the implications of such changes for photovoltaics. Generation, recombination, and bulk transport are also discussed. The two mechanisms of photocarrier collection in solar cells, drift and diffusion, are then compared. The remaining chapters focus on specific solar cell device classes defined in terms of the interface structure employed: homojunctions, semiconductor-semiconductor heterojunctions, and surface-barrier devices. This monograph is appropriate for use as a textbook for graduate students in engineering and the sciences and for seniors in electrical engineering and applied physics, as well as a reference book for those actively involved in solar cell research and development.

Surface and Interface Chemistry of Clay Minerals Robert Schoonheydt 2018-11-05 Surface and Interface Chemistry of Clay Minerals, Volume 9, delivers a fundamental understanding of the surface and interface chemistry of clay minerals, thus serving as a valuable resource for researchers active in the fields of materials chemistry and sustainable chemistry. Clay minerals, with surfaces ranging from hydrophilic, to hydrophobic, are widely studied and used as adsorbents. Adsorption can occur at the edges and surfaces of clay mineral layers and particles, and in the interlayer region. This diversity in properties and the possibility to tune the surface properties of clay minerals to match the properties of adsorbed molecules is the basis for study. This book requires a fundamental understanding of the surface and interface chemistry of clay minerals, and of the interaction between adsorbate and adsorbent. It is an essential resource for clay scientists, geologists, chemists, physicists, material scientists, researchers, and students. Presents scientists and engineers with a resource they can rely on for their own research and work involving clay minerals Includes an in-depth look at ion exchange, adsorption of inorganic and organic molecules, including polymers and proteins, and catalysis occurring at the surfaces of clay minerals Includes materials chemistry of clay minerals with chiral clay minerals, optical materials and functional films

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

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)

Limits to Climate Change Adaptation Walter Leal Filho 2017-11-15 This book sheds new light on the limits of adaptation to anthropogenic climate change. The respective chapters demonstrate the variety of and interconnections between factors that together constitute the constraints on adaptation. The book pays special attention to evidence that illustrates how and where such limits have become apparent or are in the process of establishing themselves, and which indicates future trends and contexts that might prove helpful in understanding adaptation limits. In particular, the book provides an overview of the most important challenges and opportunities regarding adaptation limits at different temporal, jurisdictional, and spatial scales, while also highlighting case studies,

projects and best practices that show how they may be addressed. The book presents innovative multi-disciplinary research and gathers evidence from various countries, sectors and regions, the goal being to advance our understanding of the limits to adaptation and ways to overcome or modify them.

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

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

African Indigenous Knowledge and the Sciences Gloria Emeagwali 2016-07-08 This book is an intellectual journey into epistemology, pedagogy, physics, architecture, medicine and metallurgy. The focus is on various dimensions of African Indigenous Knowledge (AIK) with an emphasis on the sciences, an area that has been neglected in AIK discourse. The authors provide diverse views and perspectives on African indigenous scientific and technological knowledge that can benefit a wide spectrum of academics, scholars, students, development agents, and policy makers, in both governmental and non-governmental organizations, and enable critical and alternative analyses and possibilities for understanding science and technology in an African historical and contemporary context.

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.

Metrics Vincanne Adams 2016-03-05 This volume's contributors evaluate the accomplishments, limits, and consequences of using quantitative metrics in global health. Whether analyzing maternal mortality rates, the relationships between political goals and metrics data, or the links between health outcomes and a program's fiscal support, the contributors question the ability of metrics to solve global health problems. They capture a moment when global health scholars and practitioners must evaluate the potential effectiveness and pitfalls of different metrics—even as they remain elusive and problematic. Contributors. Vincanne Adams, Susan Erikson, Molly Hales, Pierre Minn, Adeola Oni-Orisan, Carolyn Smith-Morris, Marlee Tichenor, Lily Walkover, Claire L. Wendland

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

The Student EQ Edge Steven J. Stein 2013-01-28 "The Student EQ Edge is more relevant today than any other time in the history of our world. Our opportunity to succeed in the 21st century will depend a great deal on our emotional intelligence in our transformation to lifelong learning and our leadership ability. This book is the competitive edge."—Stedman Graham, best-selling author, speaker, entrepreneur "We have been long aware that academic ability does not necessarily predict college success. This book provides a comprehensive look at emotional intelligence and the role it plays in student persistence. It takes these noncognitive aspects that we know really matter and puts them into a practical, user-friendly guide. This book is long overdue in higher education."—Catherine Andersen, master trainer in emotional intelligence; professor and special assistant to the provost for student success, Gallaudet University "As important as book learning is, we know that success in life is also dependent upon emotional intelligence. The authors of The Student EQ Edge define emotional intelligence and provide a road map for mastering emotional intelligence skills. I would highly recommend The Student EQ Edge to any high school or college student interested in knowing what it takes to be truly successful both inside and outside the classroom." —Brad Beacham, executive director, Sigma Nu Fraternity, Inc. "The Student EQ Edge is substantive, readable, and sure to appeal to students both in classes as well as those who are lucky to pick it up for personal development reading. The book is appealing because the research is understandable; numerous examples are integrated throughout, and readers are encouraged to apply what they are reading." —Dennis Roberts, assistant vice president for faculty and student services for the Qatar Foundation

Transnational Land Grabs and Restitution in an Age of the (De-) Militarised New Scramble for Africa: A Pan African Socio-Legal V. Warikandwa 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] predators mouth. In other words, some captives forget that the imperial predators 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 Post African 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 [imperial] more unsettling] decolonisation of African materialities.

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.

Global Trends 2030 Office of the Director of National Intelligence Council 2017-03-11 This publication covers global megatrends for the next 20 years and how they will affect the United States. This is the fifth installment in the National Intelligence Council's series aimed at providing a framework for thinking about possible futures and their implications. The report is intended to stimulate strategic thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories during the next 15-20 years by identifying critical trends and potential discontinuities. The authors distinguish between megatrends, those factors that will likely occur under any scenario, and game-changers, critical variables whose trajectories are far less certain. NIC 2012-001. Several innovations are included in Global Trends 2030, including: a review of the four previous Global Trends reports, input from academic and other experts around the world, coverage of disruptive technologies, and a chapter on the potential trajectories for the US role in the international system and the possible the impact on future international relations. Table of Contents: Introduction 1 Megatrends 6 Individual Empowerment 8 Poverty Reduction 8 An Expanding Global Middle Class 8 Education and the Gender Gap 10 Role of Communications Technologies 11 Improving Health 11 A MORE CONFLICTED IDEOLOGICAL LANDSCAPE 12 Diffusion of Power 15 THE RISE AND FALL OF COUNTRIES: NOT THE SAME OLD STORY 17 THE LIMITS OF HARD POWER IN THE WORLD OF 2030 18 Demographic Patterns 20 Widespread Aging 20 Shrinking Number of Youthful Countries 22 A New Age of Migration 23 The World as Urban 26 Growing Food, Water, and Energy Nexus 30 Food, Water, and Climate 30 A Brighter Energy Outlook 34 Game-Changers 38 The Crisis-Prone Global Economy 40 The Plight of the West 40 Crunch Time Too for the Emerging Powers 43 A Multipolar Global Economy: Inherently More Fragile? 46 The Governance Gap 48 Governance Starts at Home: Risks and Opportunities 48 INCREASED FOCUS ON EQUALITY AND OPENNESS 53 NEW GOVERNMENTAL FORMS 54 A New Regional Order? 55 Global Multilateral Cooperation 55 The Potential for Increased Conflict 59 INTRASTATE CONFLICT: CONTINUED DECLINE 59 Interstate Conflict: Chances Rising 61 Wider Scope of Regional Instability 70 The Middle East: At a Tipping Point 70 South Asia: Shocks on the Horizon 75 East Asia: Multiple Strategic Futures 76 Europe: Transforming Itself 78 Sub-Saharan Africa: Turning a Corner by 2030? 79 Latin America: More Prosperous but Inherently Fragile 81 The Impact of New Technologies 83 Information Technologies 83 AUTOMATION AND MANUFACTURING TECHNOLOGIES 87 Resource Technologies 90 Health Technologies 95 The Role of the United States 98 Steady US Role 98 Multiple Potential Scenarios for the United States' Global Role 101 Alternative Worlds 107 Stalled Engines 110 FUSION 116 Gini-out-of-the-Bottle 122 Nonstate World 128 Acknowledgements 134 GT2030 Blog References 137 Audience: Appropriate for anyone, from businesses to banks, government agencies to start-ups, the technology sector to the teaching sector, and more. This publication helps anticipate where the world will be: socially, politically, technologically, and culturally over the next few decades. Keywords: Global Trends 2030 Alternative Worlds, global trends 2030, Global Trends series, National Intelligence Council, global trajectories, global megatrends, geopolitics, geopolitical changes

The Adventures of Huckleberry Finn Mark Twain 1897

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.

Scour and Erosion Liang Cheng 2014-11-06 The 7th International Conference on Scour and Erosion (ICSE 2014) was organised by the School of Civil, Environmental and Mining Engineering and the Centre for Offshore Foundation Systems at the University of Western Australia under the guidance of the Technical Committee 213 for Scour and Erosion of the International Society of Soil Mechanics and Treatise on Process Metallurgy, Volume 1: Process Fundamentals 2013-11-20 Process metallurgy provides academics with the fundamentals of the manufacturing of metallic materials, from raw materials into finished parts or products. Coverage is divided into three volumes, entitled Process Fundamentals, encompassing process fundamentals, extractive and refining processes, and metallurgical process phenomena; Processing Phenomena, encompassing ferrous processing; non-ferrous processing; and refractory, reactive and aqueous processing of metals; and Industrial Processes, encompassing process modeling and computational tools, energy optimization, environmental aspects and industrial design. The work distils 400+ years combined academic experience from the principal editor and multidisciplinary 14-member editorial advisory board, providing the 2,608-page work with a seal of quality. The volumes will function as the process counterpart to Robert Cahn and Peter Haasen's famous reference family, Physical Metallurgy (1996)--which excluded process metallurgy from consideration and which is currently undergoing a major revision under the editorship of David Laughlin and Kazuhiro Hono (publishing 2014). Nevertheless, process and extractive metallurgy are fields within their own right, and this work will be of interest to libraries supporting courses in the process area. Synthesizes the most pertinent contemporary developments within process metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution, saving time for busy scientists Helps metallurgists to predict changes and consequences and create or modify whatever process is deployed

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.

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, biomonitors 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.

Ideas of Quantum Chemistry Lucjan Piela 2006-11-28 *Ideas of Quantum Chemistry* shows how quantum mechanics is applied to chemistry to give it a theoretical foundation. The structure of the book (a TREE-form) emphasizes the logical relationships between various topics, facts and methods. It shows the reader which parts of the text are needed for understanding specific aspects of the subject matter. Interspersed throughout the text are short biographies of key scientists and their contributions to the development of the field. *Ideas of Quantum Chemistry* has both textbook and reference work aspects. Like a textbook, the material is organized into digestible sections with each chapter following the same structure. It answers frequently asked questions and highlights the most important conclusions and the essential mathematical formulae in the text. In its reference aspects, it has a broader range than traditional quantum chemistry books and reviews virtually all of the pertinent literature. It is useful both for beginners as well as specialists in advanced topics of quantum chemistry. The book is supplemented by an appendix on the Internet. * Presents the widest range of quantum chemical problems covered in one book * Unique structure allows material to be tailored to the specific needs of the reader * Informal language facilitates the understanding of difficult topics

Martha Quest Doris Lessing 1991

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.