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Cloud Computing, Security, Privacy in New Computing Environments **Africa's Progress in Regional and Global Economic Integration - Towards Transformative Regional Integration** *The G Plan Diet* **Progress in Cryptology – AFRICACRYPT 2018** Pumps as Turbines **Handbook of Research on Recent Developments in Intelligent Communication Application Layered 2D Materials and Their Allied Applications Sustainable Water Technologies** *Blockchain Intelligence* **Renewable Energy Transformation or Fossil Fuel Backlash** **Handbook of Oxidative Stress in Cancer: Therapeutic Aspects** **Certification – Trust, Accountability, Liability** **Retrosynthesis in the Manufacture of Generic Drugs** **FPGA Based Accelerators for Financial Applications** *Engineering Optimization 2014* **Performability in Internet of Things** *Freedom of Information* **Face Recognition Technology** Channel Modeling and Physical Layer Optimization in Copper Line Networks *EU Foreign Policy Towards Latin America* Geometric Partial Differential Equations - Part 2 **Law and Gender in Modern Ireland** **Ships and Offshore Structures XIX** **International Business, Trade and Institutional Sustainability** ECRM2014-Proceedings of the 13th European Conference on Research Methodology for Business and Management Studies The Action Plan for Australian Lizards and Snakes 2017 *Advances in Bioenergy Progress in Cryptology - LATINCRYPT 2014* Information Sciences and Systems 2015 **Data Driven Approach Towards Disruptive Technologies** **Simulation Approach Towards Energy Flexible Manufacturing Systems** **Quo Vadis Common Fisheries Policy?** **Oswaal ISC Question Bank Class 12 Physics, Chemistry, Biology, English Paper-1 & 2 (Set of 5 Books) (For 2023 Exam)** Oswaal CBSE Question Bank Class 12 English, Physics, Chemistry & Mathematics (Set of 4 Books) (For 2022-23 Exam) Progress of the World's Women 2015-2016 Wallace's Year-book of Trotting and Pacing in ... Guide to Fashion Entrepreneurship Progress and Challenges of Nonfinancial Defined Contribution Pension Schemes **Who uses and who benefits from warehouse receipt systems? An examination of contract level transactions on the Agricultural Commodity Exchange for Africa, 2011–2018** Stigma Syndemics

Cloud Computing, Security, Privacy in New Computing Environments Oct 27 2022 This book constitutes the refereed proceedings of

the 7th International Conference on Cloud Computing, Security, Privacy in New Computing Environments, CloudComp 2016, and the First EAI International Conference SPNCE 2016, both held in Guangzhou, China, in November and December 2016. The proceedings contain 10 full papers selected from 27 submissions and presented at CloudComp 2016 and 12 full papers selected from 69 submissions and presented at SPNCE 2016. CloudComp 2016 presents recent advances and experiences in clouds, cloud computing and related ecosystems and business support. SPNCE 2016 focuses on security and privacy aspects of new computing environments including mobile computing, big data, cloud computing and other large-scale environments.

EU Foreign Policy Towards Latin America Mar 08 2021 This book analyzes the relations between two geographical areas with different levels of regional institutionalization: the European Union and Latin America. Characterized by low interdependence and asymmetry, this relationship operates in different levels ranging from EU-individual countries to EU-Latin American summits.

The G Plan Diet Aug 25 2022 As seen on ITV's Save Money: Good Health 'The beauty of the G Plan is that it's about abundance...You'll be surprised how quickly positive affects appear!' - Top Sante 'G Plan the diet that really works' - Irish Sunday Independent Losing weight never felt so good. Do you want to lose weight easily and healthily? Do you want to improve your gut health? Do you want to increase your energy and vitality at the same time? The latest research in nutrition suggests that if you want to lose weight for good, you need a healthy gut with a diversity of good bacteria. Beginning with a digestive 'rest' and including the 10 best gut healthy foods, the 21 day plan will help you say goodbye to bloating and discomfort, lose even stubborn weight and look forward to increased energy, clear skin and improved mood. Over 40 recipes are included that are quick and easy to prepare, and success stories are featured throughout. The G Plan Diet is weight loss+.

Engineering Optimization 2014 Aug 13 2021 Optimization methodologies are fundamental instruments to tackle the complexity of today's engineering processes. Engineering Optimization 2014 is dedicated to optimization methods in engineering, and contains the papers presented at the 4th International Conference on Engineering Optimization (ENGOPT2014, Lisbon, Portugal, 8-11 September 2014). The book will be of interest to engineers, applied mathematicians, and computer scientists working on research, development and practical applications of optimization methods in engineering.

Progress in Cryptology - LATINCRYPT 2014 Jun 30 2020 This book constitutes the proceedings of the 3rd International Conference on Cryptology and Information Security in Latin America, LATINCRYPT 2014, held in Florianópolis, Brazil, in September 2014. The 19 papers presented together with four invited talks were carefully reviewed and selected from 48 submissions. The papers are organized in topical sections on cryptographic engineering, side-channel attacks and countermeasures, privacy, crypto analysis and cryptographic protocols.

Retrosynthesis in the Manufacture of Generic Drugs Oct 15 2021 Offers a compendium of information on retrosynthesis and process chemistry, featuring innovative "reaction maps" showing synthetic routes of some widely used drugs This book illustrates how the retrosynthetic tool is applied in the Pharmaceutical Industry. It considers and evaluates the many viable synthetic routes that can be

used by practicing industrialists, guiding readers through the various steps that lead to the "best" processes and the limits encountered if these are put into practice on an industrial scale of seven key Active Pharmaceutical Ingredient (API). It presents an evaluation of the potential each process has for implementation, before merging the two points of view—of retrosynthesis and process chemistry—in order to show how retrosynthetic analysis assists in selecting the most efficient route for an industrial synthesis of a particular compound whilst giving insight into the industrial process. The book also uses some key concepts used by process chemists to improve efficiency to indicate the best route to select. Each chapter in *Retrosynthesis in the Manufacture of Generic Drugs Selected Case Studies* is dedicated to one drug, with each containing information on: worldwide sales and patent status of the Active Pharmaceutical Ingredient (API); structure analysis and general retrosynthetic strategy of the API; first reported synthesis; critical analysis of the processes which have been developed and comparison of the synthetic routes; lessons learned; reaction conditions for Schemes A to X; chemical "highlights" on key reactions used during the synthesis; and references. Drugs covered include: Gabapentin, Clopidogrel, Citalopram and Escitalopram, Sitagliptin, Ezetimibe, Montelukast, and Oseltamivir. Show how the retrosynthetic tool is used by the Pharmaceutical Industry Fills a gap for a book where retrosynthetic analysis is systematically applied to active pharmaceutical ingredients (APIs) Features analyses and methodologies that aid readers in uncovering practical synthetic routes to other drug substances, whether they be NCEs (New Chemical Entities) or generic APIs (Active Pharmaceutical Ingredients) Presents information from both the patent and academic literature for those who wish to use as a basis for further study and thought Features the use of "reaction maps" which display several synthetic processes in the same scheme, and which allow easy comparisons of different routes that give the same molecule or intermediate. A selection of these maps are available to download from:

<https://www.wiley.com/go/santos/retrosynthesis> *Retrosynthesis in the Manufacture of Generic Drugs Selected Case Studies* is an ideal book for researchers and advanced students in organic synthetic chemistry and process chemistry. It will also be of great benefit to practitioners in the pharmaceutical industry, particularly new starters, and those new to process chemistry.

Ships and Offshore Structures XIX Dec 05 2020 This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of

Pumps as Turbines Jun 23 2022 This book provides users, pump manufactures, engineers, researchers and students with extensive information about pump's behavior in reverse operation. It reports on cutting-edge methods for selecting the proper PAT and improving PAT's efficiency, discusses PAT's reliability, economic issues and environmental impact as well. The book describes in detail electromechanical equipment of PAT systems, their installation and operation, and gives important practical insight into the use of PAT in water transmission and distribution systems, as part of thermal power plants and cooling systems, in oil distribution systems and other systems as well. It reports on different types on PAT control modes as well as on numerical methods useful for PAT analysis

and implementation. All in all, the book represents a comprehensive practice-oriented reference-guide to design engineers, as well as PAT general users and manufactures. It also provides researchers with extensive technical information on the use of PAT thus fostering new discussions and ideas to improve current methods and cope with future challenges.

Renewable Energy Transformation or Fossil Fuel Backlash Jan 18 2022 Renewable energy is rising within an energy system dominated by powerful vested energy interests in fossil fuels, nuclear and electric utilities. Analyzing renewables in six very different countries, the author argues that it is the extent to which states have controlled these vested interests that determines the success or failure of renewables.

FPGA Based Accelerators for Financial Applications Sep 14 2021 This book covers the latest approaches and results from reconfigurable computing architectures employed in the finance domain. So-called field-programmable gate arrays (FPGAs) have already shown to outperform standard CPU- and GPU-based computing architectures by far, saving up to 99% of energy depending on the compute tasks. Renowned authors from financial mathematics, computer architecture and finance business introduce the readers into today's challenges in finance IT, illustrate the most advanced approaches and use cases and present currently known methodologies for integrating FPGAs in finance systems together with latest results. The complete algorithm-to-hardware flow is covered holistically, so this book serves as a hands-on guide for IT managers, researchers and quants/programmers who think about integrating FPGAs into their current IT systems.

Freedom of Information Jun 11 2021 Freedom of Information: A Practical Guide for UK Journalists is written to inform, instruct and inspire journalists on the investigative possibilities offered by the Freedom of Information Act. Covering exactly what the Act is, how to make FOI requests and how to use the Act to hold officials to account, Matt Burgess utilises expert opinions, relevant examples and best practice from journalists and investigators working with the Freedom of Information Act at all levels. The book is brimming with illuminating and relevant examples of the Freedom of Information Act being used by journalists, alongside a range of helpful features, including: • end-of-chapter lists of tips and learning points; • sections addressing the different areas of FOI requests; • text boxes on key thoughts and cases; • interviews with leading contemporary journalists and figures working with FOI requests. Supported by the online FOI Directory (www.foidirectory.co.uk), Freedom of Information: A Practical Guide for UK Journalists is a must read for all those training or working as journalists on this essential tool for investigating, researching and reporting.

Performability in Internet of Things Jul 12 2021 This book discusses the challenges in the convergence of technologies as the Internet of Things (IoT) evolves. These include sensing, computing, information processing, networking, and controlling intelligent technologies. The contributors first provide a survey of various assessment and evaluation approaches available for successful convergence. They then go on to cover several operational ideas to apply. The contributors then discuss the challenges involved bridging gaps in computation and the communication process, hidden networks, intelligent decision making, human-to-machine perception and large-scale IoT environments. The contributors aim to provide the reader an overview of trends in IoT in terms of

performability and traffic modeling and efforts that can be spent in assessing the graceful degradation in IoT paradigms. Provides a survey of IoT assessment and evaluation approaches; Covers new and innovative operational ideas that apply to the IoT industry and the industries it affects; Includes chapters from researchers and industry leaders in IoT from around the world.

Channel Modeling and Physical Layer Optimization in Copper Line Networks Apr 09 2021 This book investigates the physical layer aspects of high-speed transmission on twisted-pair copper wires, where the most performance-critical components are multi-input multi-output (MIMO) precoding and multi-line spectrum optimization as well as optimized scheduling of the transmission time slots on the fiber to the distribution point (FTTdp) copper link. The book brings theoretical results into the implementation, which requires the introduction of realistic channel models and more practical implementation constraints as found in the copper access network. A good understanding of the transmission medium, twisted-pair telephone cable bundles is the basis for this work. Starting from the analysis of measurement data from twisted-pair cable bundles at high frequencies, it presents a MIMO channel model for the FTTdp network, which allows the characteristic effects of high-frequency transmission on copper cable bundles in simulation to be reproduced and the physical layer transmission methods on the copper channels to be analyzed and optimized. The book also presents precoding optimization for more general power constraints and implementation constraints. The maximization of data rate in a transmission system such as G.fast or VDSL is a combinatorial problem, as the rate is a discrete function of the number of modulated bits. Applying convex optimization methods to the problem offers an efficient and effective solution approach that is proven to operate close to the capacity of the FTTdp channel. In addition to higher data rates, low power consumption is another important aspect of the FTTdp network, as it requires many access nodes that are supplied with power from the subscriber side over the twisted-pair copper wires. Discontinuous operation is a method of quickly adding and removing lines from the precoding group. To implement this, the system switches between different link configurations over time at a high frequency. The transmission times of all lines are jointly optimized with respect to the current rate requirements. Discontinuous operation is used to save power, but also makes it possible to further increase the data rates, taking the current subscriber traffic requirements into account. These methods are compared with theoretical upper bounds, using realistic channel models and conditions of a system implementation. The performance analysis provides deeper insights into implementation complexity trade-offs and the resulting gap to channel capacity.

Sustainable Water Technologies Mar 20 2022 Development of advanced technologies is a critical component in overcoming the looming water crisis. Stressing emerging technologies and strategies that facilitate water sustainability for future generations, the second volume in the two-volume set Sustainable Water Management and Technologies provides current and forthcoming technologies research, development, and applications to help ensure availability of water for all. The book emphasizes emerging nanotechnology, biotechnology, and information technology applications as well as sustainable processes and products to protect the environment and human health, save water and energy, and minimize material use. It also discusses such topics as groundwater transport, protection, and remediation, industrial and wastewater treatment, reuse, and disposal, membrane technology for water purification and desalination,

treatment and disposal in unconventional oil and gas development, biodegradation, and bioremediation for soil and water. Stresses emerging technologies and strategies that facilitate water sustainability. Covers a wide array of topics including drinking water, wastewater, and groundwater treatment, protection, and remediation. Discusses oil and gas drilling impacts and pollution prevention, membrane technology for water desalination and purification, biodegradation, and bioremediation for soil and water. Details emerging nanotechnology, biotechnology, and information technology applications, as well as sustainable processes and products.

Handbook of Oxidative Stress in Cancer: Therapeutic Aspects Dec 17 2021 This reference book, which is the second volume of Targeting Oxidative Stress in Cancer, explores oxidative stress as the potential therapeutic target for cancer therapy. The initial chapters discuss the molecular mechanisms of oxidative stress and its effects on different signaling pathways. Subsequently, the sections examine the impact of redox signaling on tumor cell proliferation and consider the therapeutic potential of dietary phytochemicals and nutraceuticals in reactive oxygen species (ROS)-induced cancer. In turn, it examines the evidence supporting the use of Vitamin C in cancer management, before presenting various synthetic and natural compounds that have therapeutic implications for oxidative stress-induced cancer. It also explores the correlation between non-coding RNA and oxidative stress. Furthermore, the book summarizes the role of stem cells in ROS-induced cancer therapy and reviews the therapeutic applications of nanoparticles to alter redox haemostasis in cancer cells. Lastly, it explores heat-shock proteins, ubiquitin ligases, and probiotics as potential therapeutic agents in ROS-mediated cancer. This book is a useful resource for basic and translational scientists as well as clinicians interested in the field of oxidative stress and cancer therapy. ?

Guide to Fashion Entrepreneurship Sep 21 2019 A comprehensive text on how to develop, market, and sell your own product lines as independent labels or brands.

Africa's Progress in Regional and Global Economic Integration - Towards Transformative Regional Integration Sep 26 2022 Based on Africa's deep rooted structural problems, the key aspect of a transformative regional integration is how to promote structural transformation by adapted strategies and policies for the African regional economic communities, for the Continental Free Trade Area, and for the Tripartite Free Trade Area. Regional integration in Africa is based on a conventional (linear) model, starting with trade preference zones and moving to free trade areas, customs unions, and monetary and economic zones, with the ultimate goal to reach political unity. Specific problems of a more transformative regional integration agenda are discussed, such as: ?food security and agriculture; industry development, enterprise growth and competition; and economic partnership agreements with extra-regional partners. In the final section, the impact of three global value chains of importance for Africa (diamonds, shea butter, and sesame) are considered on regions, on sub-regions, and on regional integration. (Series: African Development Perspectives Yearbook, Vol. 18) [Subject: African Studies, Economics

International Business, Trade and Institutional Sustainability Nov 04 2020 This book addresses the gap between innovative technologies and their adoption. It showcases research, feasibility studies and projects that demonstrate a variety of ways to implement

environmental sustainability in globally operating firms, as well as best practices in areas such as international management, adoption of cleaner technologies, global supply chains, greenhouse gas emission reduction, and transportation. The book provides state-of-the-art information on issues including: Global sustainable management practices Global sustainable food and agricultural markets Global responsible mining and energy Global sustainable sourcing Global sustainable transportation Global conservation innovations and investments Presenting expert contributions from industry, government and academia, discussing a variety of themes and perspectives on the topic "international business as a positive force of environmental sustainability" it is a vital resource for stakeholders in the international business community.

Data Driven Approach Towards Disruptive Technologies Apr 28 2020 This book is a compilation of peer-reviewed papers presented at the International Conference on Machine Intelligence and Data Science Applications, organized by the School of Computer Science, University of Petroleum & Energy Studies, Dehradun, India, during 4–5 September 2020. The book addresses the algorithmic aspect of machine intelligence which includes the framework and optimization of various states of algorithms. Variety of papers related to wide applications in various fields like data-driven industrial IoT, bioinformatics, network and security, autonomous computing and various other aligned areas. The book concludes with interdisciplinary applications like legal, health care, smart society, cyber-physical system and smart agriculture. All papers have been carefully reviewed. The book is of interest to computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.

Certification – Trust, Accountability, Liability Nov 16 2021 This book offers an in-depth analysis of the function of certification in general and of certification systems in a range of different sectors. The authors examine certification from both a theoretical and a practical standpoint and from the perspectives of different disciplines, including law, economics, management, and the social sciences. They also discuss instruments that help ensure the quality of certification, which can range from public law measures such as accreditation, to private law incentives, to deterrents, such as liability towards victims. Further, they assess the role of competition between certification bodies. Readers will learn the commonalities as well as the necessary distinctions between certification bodies in various fields, which may stem from the different functions they serve. These similarities and differences may also be the result of different types of damage that the certified producer or service provider could potentially cause to individuals or to the public at large. Often, companies use certification bodies as an argument to assure the general public, e.g. regarding the safety of medical products. Closer inspection reveals, however, that sometimes certification bodies themselves lack credibility. The book offers essential information on the benefits and pitfalls associated with certification.

Face Recognition Technology May 10 2021 This book examines how face recognition technology is affecting privacy and confidentiality in an era of enhanced surveillance. Further, it offers a new approach to the complex issues of privacy and confidentiality, by drawing on Joseph K in Kafka's disturbing novel The Trial, and on Isaiah Berlin's notion of liberty and freedom. Taking into consideration rights and wrongs, protection from harm associated with compulsory visibility, and the need for effective

data protection law, the author promotes ethical practices by reinterpreting privacy as a property right. To protect this right, the author advocates the licensing of personal identifiable images where appropriate. The book reviews American, UK and European case law concerning privacy and confidentiality, the effect each case has had on the developing jurisprudence, and the ethical issues involved. As such, it offers a valuable resource for students of ethico-legal fields, professionals specialising in image rights law, policy-makers, and liberty advocates and activists.

Simulation Approach Towards Energy Flexible Manufacturing Systems Mar 28 2020 This authored monograph provides in-depth analysis and methods for aligning electricity demand of manufacturing systems to VRE supply. The book broaches both long-term system changes and real-time manufacturing execution and control, and the author presents a concept with different options for improved energy flexibility including battery, compressed air and embodied energy storage. The reader will also find a detailed application procedure as well as an implementation into a simulation prototype software. The book concludes with two case studies. The target audience primarily comprises research experts in the field of green manufacturing systems.

Handbook of Research on Recent Developments in Intelligent Communication Application May 22 2022 The communication field is evolving rapidly in order to keep up with society's demands. As such, it becomes imperative to research and report recent advancements in computational intelligence as it applies to communication networks. The Handbook of Research on Recent Developments in Intelligent Communication Application is a pivotal reference source for the latest developments on emerging data communication applications. Featuring extensive coverage across a range of relevant perspectives and topics, such as satellite communication, cognitive radio networks, and wireless sensor networks, this book is ideally designed for engineers, professionals, practitioners, upper-level students, and academics seeking current information on emerging communication networking trends.

The Action Plan for Australian Lizards and Snakes 2017 Sep 02 2020 Lizards and snakes (squamate reptiles) are the most diverse vertebrate group in Australia, with approximately 1000 described species, representing about 10% of the global squamate diversity. Squamates are a vital part of the Australian ecosystem, but their conservation has been hindered by a lack of knowledge of their diversity, distribution, biology and key threats. The Action Plan for Australian Lizards and Snakes 2017 provides the first comprehensive assessment of the conservation status of Australian squamates in 25 years. Conservation assessments are provided for 986 species of Australian lizards and snakes (including sea snakes). Over the past 25 years there has been a substantial increase in the number of species and families recognised within Australia. There has also been an increase in the range and magnitude of threatening processes with the potential to impact squamates. This has resulted in an increase in the proportion of the Australian squamate fauna that is considered Threatened. Notably over this period, the first known extinction (post-European settlement) of an Australian reptile species occurred – an indication of the increasingly urgent need for better knowledge and management of this fauna. Six key recommendations are presented to improve the conservation management and plight of Australian squamates. This Action Plan represents an essential resource for research scientists, conservation biologists, conservation managers, environmental consultants,

policy makers from Commonwealth and State/Territory governments, and the herpetological community.

Stigma Syndemics Jun 18 2019 Central to this volume, and critical to its unique creative significance and contribution, is the conceptual unification of syndemics and stigma. Syndemics theory is increasingly recognized in social science and medicine as a crucial framework for examining and addressing pathways of interaction between biological and social aspects of chronic and acute suffering in populations. While much research to date addresses known syndemics such as those involving HIV, diabetes, and mental illness, this book explores new directions just beginning to emerge in syndemics research – revealing what syndemics theory can illuminate about, for example the health consequences of socially pathologized pregnancy or infertility, when stigmatization of reproductive options or experiences affect women’s health. In other chapters, newly identified syndemics affecting incarcerated or detained individuals are highlighted, demonstrating the physical, psychological, structural, and political-economic effects of stigmatizing legal frameworks on human health, through a syndemic lens. Elsewhere in the volume, scholars examine the stigma of poverty and how it affects both nutritional and oral health. The common thread across all chapters is linkages of social stigmatization, structural conditions, and how these societal forces drive biological and disease interactions affecting human health, in areas not previously explored through these lenses.

Progress in Cryptology – AFRICACRYPT 2018 Jul 24 2022 This book constitutes the refereed proceedings of the 10th International Conference on the Theory and Application of Cryptographic Techniques in Africa, AFRICACRYPT 2018, held in Marrakesh, Morocco, in May 2018. The 19 papers presented in this book were carefully reviewed and selected from 54 submissions. AFRICACRYPT is a major scientific event that seeks to advance and promote the field of cryptology on the African continent. The conference has systematically drawn some excellent contributions to the field. The conference has always been organized in cooperation with the International Association for Cryptologic Research (IACR).

Who uses and who benefits from warehouse receipt systems? An examination of contract level transactions on the Agricultural Commodity Exchange for Africa, 2011–2018 Jul 20 2019

Progress and Challenges of Nonfinancial Defined Contribution Pension Schemes Aug 21 2019 The individual account-based but unfunded approach to mandated public pension systems is a reform benchmark for all pension schemes, promising fair and financially sustainable benefits. Nonfinancial defined contribution (NDC) pension schemes originated in Italy and Sweden in the 1990s, were then adopted by Latvia, Norway, and Poland, envisaged but not implemented in various other countries, such as Egypt and Russia, and remain under discussion in many nations around the world, such as China and France. In its complete form, the approach also comprises budget-financed basic income provisions and mandated or voluntary funded provisions. Volume 1 of this book offers an assessment of countries that were early adopters before addressing key aspects of policy implementation and design review, including how best to combine basic income provisions with an NDC scheme, how to deal with heterogeneity in longevity, and how to adjust NDC scheme design and labor market policies to deliver on reform expectations. Volume 2 addresses a second set of issues, including

the gender pension gap and what family policies can do about it within the NDC framework, labor market issues and administrative challenges of NDC schemes and how countries are coping, the role of communication in these pension schemes, the complexity of cross-border pension taxation, and much more. *Progress and Challenges of Nonfinancial Defined Contribution Pension Schemes* is the third in a series of books analyzing the progress, challenges, and adjustment options of this reform revolution for mandated public pension systems. 'Pension reform is a major issue in many countries. The development of the nonfinancial defined contribution pension plan in the 90's was a major advance in pension design. By reporting actual country experiences and exploring properties of plan designs, this latest collection of essays is a valuable contribution, well worth reading.' Peter Diamond Professor at Massachusetts Institute of Technology; 2010 winner of the Nobel Memorial Prize in Economic Sciences 'A highly stimulating publication for policy makers and researchers alike. It pushes the analytical frontier for policy challenges that all public pension schemes are confronted with but that the nonfinancial defined contribution approach promises to handle best.' Noriyuki Takayama President, Research Institute for Policies on Pension and Aging, Tokyo, and professor emeritus, Hitotsubashi University, Tokyo 'In a changing world where pensions are more than ever linked to labor markets, communication tools, and flexibility considerations, this anthology provides a unique up-to-date analysis of nonfinancial defined contribution pension schemes. By mixing international experiences and theoretical studies, it demonstrates the high adaptability of such pension schemes to changing social challenges.' Pierre Devolder Professor of Finance and Actuarial Sciences, Catholic University of Louvain, Belgium

Progress of the World's Women 2015-2016 Nov 23 2019 This UN Women's flagship report shows that, all too often, women's economic and social rights are held back, because they are forced to fit into a 'man's world'. But, it is possible to move beyond the status quo, to picture a world where economies are built with women's rights at their heart. It is being published as the international community comes together to define a transformative post-2015 development agenda, and coincides with the 20th anniversary commemoration of the landmark Fourth World Conference on Women in Beijing, China which set out a comprehensive agenda to advance gender equality. This publication brings together human rights and economic policymaking, and provides the key elements for a far-reaching new policy agenda that can transform economies and make women's rights a reality. Through solid in-depth analysis and data, this evidence-based report provides key recommendations on moving towards an economy that truly works for women, for the benefit of all.

Information Sciences and Systems 2015 May 30 2020 The 30th Anniversary of the ISCIS (International Symposium on Computer and Information Sciences) series of conferences, started by Professor Erol Gelenbe at Bilkent University, Turkey, in 1986, will be held at Imperial College London on September 22-24, 2015. The preceding two ISCIS conferences were held in Krakow, Poland in 2014, and in Paris, France, in 2013. The Proceedings of ISCIS 2015 published by Springer brings together rigorously reviewed contributions from leading international experts. It explores new areas of research and technological development in computer science, computer engineering, and information technology, and presents new applications in fast changing fields such as information science, computer

science and bioinformatics. The topics covered include (but are not limited to) advances in networking technologies, software defined networks, distributed systems and the cloud, security in the Internet of Things, sensor systems, and machine learning and large data sets.

Advances in Bioenergy Aug 01 2020 The increasing deployment of bioenergy frequently raises issues regarding the use of land and raw materials, infrastructure and logistics. In light of these sometimes conflicting interests *Advances in Bioenergy* provides an objective and wide-ranging overview of the technology, economics and policy of bioenergy. Offering an authoritative multidisciplinary summary of the opportunities and challenges associated with bioenergy utilization, with international researchers give up-to-date and detailed information on key issues for biomass production and conversion to energy. Key features: *Discusses different bioenergy uses such as transportation fuels, electricity and heat production. *Assesses emerging fields such as bio-based chemicals and bio-refineries. *Debates conditions for the mobilization of sustainable bioenergy supply chains and outlines governance systems to support this mobilization. * Dedicated chapters to sustainability governance and emerging tools such as certification systems and standards supporting growth of a sustainable bioenergy industry. *Considers the political, environmental, social and cultural context related to the demand for energy resources, the impact of this demand on the world around us, and the choices and behaviours of consumers. This book will be a vital reference to engineers, researchers and students that need an accessible overview of the bioenergy area. It will also be of high value for politicians, policymakers and industry leaders that need to stay up to date with the state-of-the-art science and technology in this area.

Layered 2D Materials and Their Allied Applications Apr 21 2022 Ever since the discovery of graphene, two-dimensional layered materials (2DLMs) have been the central tool of the materials research community. The reason behind their importance is their superlative and unique electronic, optical, physical, chemical and mechanical properties in layered form rather than in bulk form. The 2DLMs have been applied to electronics, catalysis, energy, environment, and biomedical applications. The following topics are discussed in the book's fifteen chapters: • The research status of the 2D metal-organic frameworks and the different techniques used to synthesize them. • 2D black phosphorus (BP) and its practical application in various fields. • Reviews the synthesis methods of MXenes and provides a detailed discussion of their structural characterization and physical, electrochemical and optical properties, as well as applications in catalysis, energy storage, environmental management, biomedicine, and gas sensing. • The carbon-based materials and their potential applications via the photocatalytic process using visible light irradiation. • 2D materials like graphene, TMDCs, few-layer phosphorene, MXene in layered form and their heterostructures. • The structure and applications of 2D perovskites. • The physical parameters of pristine layered materials, ZnO, transition metal dichalcogenides, and heterostructures of layered materials are discussed. • The coupling of graphitic carbon nitride with various metal sulfides and oxides to form efficient heterojunction for water purification. • The structural features, synthetic methods, properties, and different applications and properties of 2D zeolites. • The methods for synthesizing 2D hollow nanostructures are featured and their structural aspects and potential in

medical and non-medical applications. • The characteristics and structural aspects of 2D layered double hydroxides (LDHs) and the various synthesis methods and role of LDH in non-medical applications as adsorbent, sensor, catalyst, etc. • The synthesis of graphene-based 2D layered materials synthesized by using top-down and bottom-up approaches where the main emphasis is on the hot-filament thermal chemical vapor deposition (HFTCVD) method. • The different properties of 2D h-BN and borophene and the various methods being used for the synthesis of 2D h-BN, along with their growth mechanism and transfer techniques. • The physical properties and current progress of various transition metal dichalcogenides (TMDC) based on photoactive materials for photoelectrochemical (PEC) hydrogen evolution reaction. • The state-of-the-art of 2D layered materials and associated devices, such as electronic, biosensing, optoelectronic, and energy storage applications.

Geometric Partial Differential Equations - Part 2 Feb 07 2021 Besides their intrinsic mathematical interest, geometric partial differential equations (PDEs) are ubiquitous in many scientific, engineering and industrial applications. They represent an intellectual challenge and have received a great deal of attention recently. The purpose of this volume is to provide a missing reference consisting of self-contained and comprehensive presentations. It includes basic ideas, analysis and applications of state-of-the-art fundamental algorithms for the approximation of geometric PDEs together with their impacts in a variety of fields within mathematics, science, and engineering. About every aspect of computational geometric PDEs is discussed in this and a companion volume. Topics in this volume include stationary and time-dependent surface PDEs for geometric flows, large deformations of nonlinearly geometric plates and rods, level set and phase field methods and applications, free boundary problems, discrete Riemannian calculus and morphing, fully nonlinear PDEs including Monge-Ampere equations, and PDE constrained optimization Each chapter is a complete essay at the research level but accessible to junior researchers and students. The intent is to provide a comprehensive description of algorithms and their analysis for a specific geometric PDE class, starting from basic concepts and concluding with interesting applications. Each chapter is thus useful as an introduction to a research area as well as a teaching resource, and provides numerous pointers to the literature for further reading The authors of each chapter are world leaders in their field of expertise and skillful writers. This book is thus meant to provide an invaluable, readable and enjoyable account of computational geometric PDEs

ECRM2014-Proceedings of the 13th European Conference on Research Methodology for Business and Management Studies Oct 03 2020

Oswaal CBSE Question Bank Class 12 English, Physics, Chemistry & Mathematics (Set of 4 Books) (For 2022-23 Exam) Dec 25 2019 Oswaal CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 are based on latest & full syllabus The CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 Includes Term 1 Exam paper 2021+Term II CBSE Sample paper+ Latest Topper Answers The CBSE Books Class 12 2022 -23 comprises Revision Notes: Chapter wise & Topic wise The CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 includes Exam Questions: Includes Previous Years Board Examination questions (2013-2021) It includes CBSE Marking Scheme Answers: Previous Years' Board Marking scheme answers

(2013-2020) The CBSE Books Class 12 2022 -23 also includes New Typology of Questions: MCQs, assertion-reason, VSA ,SA & LA including case based questions The CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 includes Toppers Answers: Latest Toppers' handwritten answers sheets Exam Oriented Prep Tools Commonly Made Errors & Answering Tips to avoid errors and score improvement Mind Maps for quick learning Concept Videos for blended learning The CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 includes Academically Important (AI) look out for highly expected questions for the upcoming exams

Oswaal ISC Question Bank Class 12 Physics, Chemistry, Biology, English Paper-1 & 2 (Set of 5 Books) (For 2023 Exam) Jan 26 2020 This product covers the following: Strictly as per the Full syllabus for Board 2022-23 Exams Includes Questions of the both - Objective & Subjective Types Questions Chapterwise and Topicwise Revision Notes for in-depth study Modified & Empowered Mind Maps & Mnemonics for quick learning Concept videos for blended learning Previous Years' Board Examination Questions and Marking scheme Answers with detailed explanation to facilitate exam-oriented preparation. Examiners comments & Answering Tips to aid in exam preparation. Includes Topics found Difficult & Suggestions for students. Includes Academically important Questions (AI) Dynamic QR code to keep the students updated for 2023 Exam paper or any further ISC notifications/circulars

Wallace's Year-book of Trotting and Pacing in ... Oct 23 2019

Blockchain Intelligence Feb 19 2022 This book focuses on using artificial intelligence (AI) to improve blockchain ecosystems. Gathering the latest advances resulting from AI in blockchain data analytics, it also presents big data research on blockchain systems. Despite blockchain's merits of decentralisation, immutability, non-repudiation and traceability, the development of blockchain technology has faced a number of challenges, such as the difficulty of data analytics on encrypted blockchain data, poor scalability, software vulnerabilities, and the scarcity of appropriate incentive mechanisms. Combining AI with blockchain has the potential to overcome the limitations, and machine learning-based approaches may help to analyse blockchain data and to identify misbehaviours in blockchain. In addition, deep reinforcement learning methods can be used to improve the reliability of blockchain systems. This book focuses in the use of AI to improve blockchain systems and promote blockchain intelligence. It describes data extraction, exploration and analytics on representative blockchain systems such as Bitcoin and Ethereum. It also includes data analytics on smart contracts, misbehaviour detection on blockchain data, and market analysis of blockchain-based cryptocurrencies. As such, this book provides researchers and practitioners alike with valuable insights into big data analysis of blockchain data, AI-enabled blockchain systems, and applications driven by blockchain intelligence.

Quo Vadis Common Fisheries Policy? Feb 25 2020 Offers a guide and provides an analysis of how a public European fisheries policy should be evaluated, implemented, and reformed Quo Vadis Common Fisheries Policy? is an essential book that provides an authoritative guide to the future challenges that face the public European fisheries policy. Written by a noted expert with 30 years' experience in fisheries policies, the book provides the information needed to analyze how a public EU policy should be evaluated,

implemented, and reformed. The book examines the difficulties of implementing the new policy including the application of the objectives of the 2013 policy reform. The author explores the myriad challenges that face the new policy due to global warming, pollution, and other global drivers. The book compares the new policy with other fisheries policy, particularly with the United States fisheries policy under the Magnusson-Stevens Act. The book offers an opportunity to address and discuss the challenges and obstacles that are not currently in the public domain. This important book: Provides a unique view from a noted expert and former policy insider Offers a critical analysis of a public EU policy from a pro-European standpoint. Gives a foundational resource to aid in the debate on the future of the Common Fisheries Policy Includes topics that go beyond EU's policy and have implications for fisheries' management around the world Written for administrations and stakeholders in the European and international fishing industry, Quo Vadis Common Fisheries Policy? addresses the challenges of EU's new fisheries policy and offers a comparison of the US fisheries policy. The book helps foster much-needed debate about this topic.

Law and Gender in Modern Ireland Jan 06 2021 Law and Gender in Modern Ireland: Critique and Reform is the first generalist text to tackle the intersection of law and gender in this jurisdiction for over two decades. As such, it could hardly have come at a more opportune moment. The topic of law and gender, perhaps more so than at any other time in Irish history, has assumed a dominant place in political and academic debate. Among scholars and policy-makers alike, the regulation of gendered bodies, and the legal status of sexual and gendered identities, is now a highly visible fault line in public discourse. Debates over reproductive justice (exemplified by the recent referendum to remove the '8th Amendment'), increased rights for lesbian, gay, bisexual and transgender persons (including the public-sanctioned introduction of same-sex marriage) and the historic mistreatment of women and young girls have re-shaped Irish public and political life, and encouraged Irish society to re-examine long-unchallenged gender norms. While many traditional flashpoints remain such as abortion and prostitution/sex work, there are also new questions, including surrogacy and the gendered experience of asylum frameworks, which have emerged. As policy-makers seek to enact reforms, they face a population with increasingly polarised perceptions of gender and a legal structure ill-equipped for modern realities. This edited volume directly addresses modern Irish debates on law and gender. Providing an overview of the existing rules and standards, as well as exploring possible options for reform, the collection stands as an important statement on the law in this jurisdiction, and as an invaluable resource for pursuing gendered social change. While the edited collection applies a doctrinal methodology to explain current statutes, case law and administrative practices, the contributors also invoke critical gender, queer and race perspectives to identify and problematise existing (and potential) challenges. This edited collection is essential reading for all who are interested in law, gender and processes of social change in modern Ireland.