

Physical Sciences 14 March 2014 Question Paper

Big Data Systems encompass massive challenges related to data diversity, storage mechanisms, and requirements of massive computational power. Further, capabilities of big data systems also vary with respect to type of problems. For instance, distributed memory systems are not recommended for iterative algorithms. Similarly, variations in big data systems also exist related to consistency and fault tolerance. The purpose of this book is to provide a detailed explanation of big data systems. The book covers various topics including Networking, Security, Privacy, Storage, Computation, Cloud Computing, NoSQL and NewSQL systems, High Performance Computing, and Deep Learning. An illustrative and practical approach has been adopted in which theoretical topics have been aided by well-explained programming and illustrative examples. Key Features: Introduces concepts and evolution of Big Data technology. Illustrates examples for thorough understanding. Contains programming examples for hands on development. Explains a variety of topics including NoSQL Systems, NewSQL systems, Security, Privacy, Networking, Cloud, High Performance Computing, and Deep Learning. Exemplifies widely used big data technologies such as Hadoop and Spark. Includes discussion on case studies and open issues. Provides end of chapter questions for enhanced learning.

The Future of Humanity seeks to answer the question: “What kind of global civilization

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should human beings pursue and what do we have to do collectively?," one a question that has preoccupied scholars, philosophers and politicians for centuries. In doing so, the book tackles concepts as monumental as the keys to happiness, alien nonconventional intelligence, immortality, morality and China's possible role in bringing about a better world joining this global discussion. To navigate these many and complex topics, Jin combines the spiritual insights of ancient Chinese thinkers with a deep respect for the accomplishments and discoveries of modern Western science, exploring and explaining her distinct vision for a what a better, global future civilization could be. Networks are omnipresent in our natural and social world, and they are at the heart of politics. Relationships of many types drive political institutions, processes, and decision-making. Therefore, it is imperative for the study of politics to include network approaches. Already, these approaches have advanced our understanding of critical questions, such as: Why do people vote? How can people build problem-solving coalitions? How can governments and organizations foster innovations? How can countries build ties that promote peace? What are the most fruitful strategies for disrupting arms or terrorist networks? This volume is designed as a foundational statement and resource. The contributions offer instruction on network theory and methods at both beginner and advanced levels, as well as an assessment of the state-of-the-discipline on a variety of applied network topics in politics. Through this dynamic collection of essays, *The Oxford Handbook of Political Networks* elucidates how the

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field is transforming and what that means for the future of political science. This is the first human geography social atlas of Europe to consider the European economy, culture, history and human and physical geography as a single land mass and a more unified European people. It provides an accessible overview of Europe and a human geography contribution to debates about a wide range of topics. A falling apple inspired the law of gravity—or so the story goes. Is it true? Perhaps not. But why do such stories endure as explanations of how science happens? Newton's *Apple and Other Myths about Science* brushes away popular misconceptions to provide a clearer picture of scientific breakthroughs from ancient times to the present. *Information Design* provides citizens, business and government with a means of presenting and interacting with complex information. It embraces applications from wayfinding and map reading to forms design; from website and screen layout to instruction. Done well it can communicate across languages and cultures, convey complicated instructions, even change behaviours. *Information Design* offers an authoritative guide to this important multidisciplinary subject. The book weaves design theory and methods with case studies of professional practice from leading information designers across the world. The heavily illustrated text is rigorous yet readable and offers a single, must-have, reference to anyone interested in information design or any of its related disciplines such as interaction design and information architecture, information graphics, document design, universal design, service design, map-making

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and wayfinding.

This book provides the first comprehensive international coverage of key issues in mandatory reporting of child abuse and neglect. The book draws on a collection of the foremost scholars in the field, as well as clinicians and practice-based experts, to explore the nature, history, impact and justifiability of mandatory reporting laws, their optimal form, legal and conceptual issues, and practical issues and challenges for reporters, professional educators and governments. Key issues in non-Western nations are also explored briefly to assess the potential of socio-legal responses sex trafficking, forced child labour and child marriage. The book is of particular value to policy makers, educators and opinion leaders in government departments dealing with children, and to professionals and organisations who work with children. It is also intended to be a key authority for researchers and teachers in the fields of medicine, nursing, social work, education, law, psychology, health and allied health fields.

Fungi of the order Pucciniales cause rust diseases on many plants including important crops and trees widely used in Agriculture, forestry and bioenergy programs; these encompass gymnosperms and angiosperms, monocots and dicots, perennial and annual plant species. These fungi are obligate biotrophs and -except for a few cases- cannot be cultivated outside their hosts in a laboratory. For this reason, standard functional and molecular genetic approaches to study these pathogens are very challenging and the means to study their biology, i.e. how they infect, develop and

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reproduce on plant hosts, are rather limited, even though they rank among the most devastating pathogens. Among fungal plant pathogens, rust fungi display the most complex lifecycles for with up to five different spore forms and for many rust fungi, alternate hosts on which sexual and clonal reproduction are achieved. The genomics revolution and particularly the application of new generation sequencing technologies have greatly changed the way we now address biological studies and has in particular accelerated and made feasible, molecular studies on non-model species, such as rust fungi. The goal of this research topic is to gather articles that present recent advances in the understanding of rust fungus biology, their complex lifecycles and obligate biotrophic interactions with their hosts, through the means of genomics. This includes genome sequencing and/or resequencing of isolates, RNA-Seq or large-scale transcriptome analyses, genome-scale detailed annotation of gene families, conformation of genes and/or expression of gene complements via proteomics, and comparative analyses among the various rust fungi and, where feasible, with other obligate biotrophs or fungi displaying distinct trophic modes. This Research Topic provides a great opportunity to provide an up-to-date account of rust fungus biology through the lens of genomics, including state-of-the-art technologies developed to achieve this knowledge.

Comprehensive and informative, the extensively revised fifth edition of Occupational Therapy in Psychiatry and Mental Health is an accessible overview of occupational therapy in psychiatry,

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providing key information on a range of international models of occupational therapy as well as their practical applications. The fifth edition includes:

- Case studies throughout to illustrate application of theory to practice
- Coverage of key concepts and issues in occupational therapy
- New material on emerging areas of practice
- Comprehensive information on assessment and treatment for children, adolescents and adults, covering key mental health conditions

Occupational Therapy in Psychiatry and Mental Health is an ideal resource for students in occupational therapy, newly qualified and experienced practitioners, and other allied health professionals seeking an up-to-date, globally relevant resource on psychiatry and mental health care.

In *Challenging Inequality in South Africa: Transitional Compasses* leading scholars of South Africa explore creative possibilities to challenge structures of economic, social and political power that produce inequality. Through concrete empirical examples of movements, workers' struggles, initiatives, and politics in challenging inequality, the authors illustrate 'transitional compasses' that go beyond protest politics to a 'generative' politics, a politics of building the alternatives in the interstitial spaces of capitalism. The conceptual framing is oriented around the way in which power is produced and reproduced through intricate relationships between hegemonic projects and everyday life. While power underpins all social relations, it is often taken for granted, as it is frequently hidden behind other social relations. Resistance to power emerges through engendering counter-hegemonic projects that are intertwined with alternative everyday practices. The authors highlight sources of alternative forms of power found in resistance to dominant forms of power through concrete experiences to create transformative alternatives. To concretize the conceptual framing, the authors look at the emancipatory

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possibilities of a universal basic income, the use of law in tackling inequality in health and education, creative initiatives to establish a people-centred food system through food sovereignty, new forms of organizing led by precarious workers, democratic possibilities in local state delivery, and attempts at reconceptualizing the good life by looking at issues of happiness and ecosocialism. The chapters in this book were originally published in the journal, Globalizations.

It has been said that the only asset that a lawyer has is time. But the reality is that a lawyer's greatest asset is information. The practice and the business of law is all about information exchange. The flow of information travels in a number of different directions during the life of a case. A client communicates certain facts to a lawyer. The lawyer assimilates those facts and seeks out specialised legal information which may be applicable to those facts. In the course of a generation there has been a technological revolution which represents a paradigm shift in the flow of information and communication. Collisions in the Digital Paradigm is about how the law deals with digital information technologies and some of the problems that arise when the law has to deal with issues arising in a new paradigm.

Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise. The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space, using the technologies of that era to generate reliable knowledge more quickly and efficiently. Harnessing today's stunning, ongoing advances in information technologies, the global research enterprise and its stakeholders are moving toward a new open science ecosystem. Open science aims to ensure the free availability and usability of scholarly

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publications, the data that result from scholarly research, and the methodologies, including code or algorithms, that were used to generate those data. Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise. This report explores specific examples of open science and discusses a range of challenges, focusing on stakeholder perspectives. It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps.

It is widely believed that the practice of ancient Egyptian religion ceased with the end of pharaonic culture and the rise of Christianity. However, an organised reconstruction and revival of the authentic practice of Egyptian, or Kemetic religion has been growing, almost undocumented, for nearly three decades. *Profane Egyptologists* is the first in-depth study of the now-global phenomenon of Kemeticism. Presenting key players in their own words, the book utilises extensive interviews to reveal a continuum of beliefs and practices spanning eight years of community growth. The existence of competing visions of Egypt, which employ ancient material and academic resources, questions the position of Egyptology as a gatekeeper of Egypt's past. Exploring these boundaries, the book highlights the politicised and economic factors driving the discipline's self-conception. Could an historically self-imposed insular nature have harmed Egyptology as a field, and how could inclusive discussion help guard against further isolationism? *Profane Egyptologists* is both an Egyptological study of Kemeticism, and a critical study of the discipline of Egyptology itself. It will be of value to scholars and students of archaeology and Egyptology, cultural heritage, religion online, phenomenology, epistemology, pagan studies and ethnography, as well as Kemetics and

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devotees of Egyptian culture.

Humanity has extensively exploited natural and physical resources, since the Industrial Revolution in Europe. A geological era, now called the Anthropocene, has been coined in environmental and developmental circles, to mark the increased domination of humanity on Earth and its resources. Today, the ecological footprint on the fragile planet continues to increase. Mass industrialisation, like what China is doing and pushing for, is one of the drivers for increased urbanisation that results in increased demand for land. It is also the stimulus behind increased deforestation, overfishing, and pollution. As the fragility of the Earth increases, global bodies like the Intergovernmental Panel on Climate Change are pushing to reduce the Earth's temperature. Human efforts to manage the problem cascade from a global to a regional, to a national, as well as to much localised scales. Missing though are nuanced contributions at national and community levels, which this book is an attempt to bridge. The nagging sense of responsibility is what this book explores under the label of "sustainability ethic". As a case study, the book examines the use of sustainability ethic in the management of the physical, infrastructural and natural resources of Zimbabwe. This ethic is built on pillars that include participation of people (households) in their pursuit for sustainable livelihoods, appropriate technology, tools and techniques for environmental protection. It also hinges on stewardship and structures, institutions, policies and processes of governance and sustainability. There are also the aspects of ethics, laws and indigenous technical knowledge for sustainability, capacity building and education plans and programmes for sustainability and population and demographic determinants, processes and outcomes for sustainability. The book is a timely contribution to an urgent global concern and climate change debate.

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This innovative text's critical examination foregrounds the prime reason why so many people participate in or watch sport – pleasure. Although there has been a "turn" to emotions and affect within academia over the last two decades, it has been somewhat remiss that pleasure, as an integral aspect of human life, has not received greater attention from sociologists of sport, exercise and physical education. This book addresses this issue via an unabashed examination of sport and the moving body via a "pleasure lens." It provides new insights about the production of various identities, power relations and social issues, and the dialectical links between the socio-cultural and the body. Taking a wide-sweeping view of pleasure - dignified and debauched, distinguished and mundane – it examines topics as diverse as aging, health, fandom, running, extreme sports, biopolitics, consumerism, feminism, sex and sexuality. In drawing from diverse theoretical approaches and original empirical research, the text reveals the social and political significance of pleasure and provides a more rounded, dynamic and sensual account of sport.

The 21st Century Truck Partnership (21CTP) works to reduce fuel consumption and emissions, increase heavy-duty vehicle safety, and support research, development, and demonstration to initiate commercially viable products and systems. This report is the third in a series of three by the National Academies of Sciences, Engineering, and Medicine that have reviewed the research and development initiatives carried out by the 21CTP. Review of the 21st Century Truck Partnership, Third Report builds on the Phase 1 and 2 reviews and reports, and also comments on changes and progress since the Phase 2 report was issued in 2012.

Climate change is real and it is man-made. We have put so many greenhouse gas pollutants into the atmosphere that we will see significant and long-term change that we need to adapt

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and adjust to. It is important for development practitioners to understand these impacts and the challenge of how and when to adapt to climate change. There are plenty of grim presentations of what the extremes of the possible climate scenarios will throw at us over the next 100 years, but not all change will be disastrous; some change will be beneficial, but much of the change will happen at an unprecedented rate that will require the best possible analysis and understanding of how and when we should adapt to climate change. This is important for development practitioners as we invest in ensuring that poverty is reduced and eliminated and the well-being of everyone is improved. Many countries and communities around the world are vulnerable to the impacts of climate change, but developing economies may on one hand be less resilient to the impact, but could on the other hand be in a better position to make their development climate smart by making the most efficient use of their economic resources. The chapters in this book shine a light on the complexity and the multi-dimensional aspects of climate change adaptation. They gather some of the experiences of addressing climate change impacts in a development context. This book was previously published as a special issue of *Development in Practice*.

A 'coach' is more than just somebody who leads in the organisation and delivery of structured sport. The role of a coach goes beyond leadership, requiring an understanding of theories of teaching and learning. To become a coach you must know how people learn. Becoming a Sports Coach aims to introduce the multi-dimensional and inter-locking knowledge bases that any aspiring coach will need to develop, and that any established coach needs to master in order to improve their professional practice. While traditional coach education pathways have focused on what to coach, this book argues that understanding how knowledge can be

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communicated to learners is just as important. Asking why we coach, through critical reflection and self-knowledge, is also an essential part of the process of becoming a sports coach. The book explores three types of knowledge – content knowledge, pedagogic knowledge and self-knowledge – challenging the reader to reflect on their own coaching experiences and to develop a personal philosophy of coaching. It explores key pedagogic themes in contemporary coaching studies, such as humanistic coaching, inclusive practice, coaching for understanding, and the athlete-coach relationship. Real case studies are used to illuminate the ways – transferrable across sports - in which coaches can apply theory to practice and ultimately enhance their work. With contributions from leading coaching researchers and practitioners, combining practical guidance with important theoretical insights, this book will help any coaching student or developing professional to better understand the journey to becoming an effective sports coach.

The Britannica Book of the Year 2014 provides a valuable viewpoint of the people and events that shaped the year and serves as a great reference source for the latest news on the ever changing populations, governments, and economies throughout the world. It is an accurate and comprehensive reference that you will reach for again and again.

This book is about what I remember about many members of my family and about the knowledge I obtained about them through various interviews and written sources, e.g., obituaries, newspapers, and articles I found on the Internet. The book follows a certain order. I describe what I remember about my immediate family members. I start off with my father then my mother and then my brother—the only sibling I ever had. I then discuss my life with my ex-wife and her family and then the only child we ever had. I go on to another chapter, or maybe

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the third chapter, and talk about my paternal grandfather's family and as much of what I could remember about my maternal grandmother's family. I know and discovered more about the former than the latter. I enhanced my discussion throughout the book with as many pictures as I could gather. The book has pictures anywhere from one to about eighty years old. This, I thought, would make the book more interesting and lively. The book is replete with explanatory footnotes for those of certain generations or knowledge who may not understand or know of certain places, celebrities, cultural practices, and events. The entire book was prepared to relate to all who might read it in terms of family connections, their interest(s) in travel, history, sports, genealogy, and biography. I then talk about my maternal grandmother's family. It is relatively short because I did not know too many of them that well. The book covers mostly what I know and found out about my maternal grandfather's family. That is because it is the largest segment of my entire family. My father had no siblings, whereas my mother had about ten or eleven siblings, and all of them had children and grandchildren. I discovered a great deal more accomplishments in life on my mother's side as opposed to my father's side of the family. I do not think the book is boring or particularly too long or too short. The book is a description of the life of the people whom I discuss and how I might have fitted into those lives. OECD's 2014 Economic Survey of the United States examines recent economic developments, policies and prospects. Special chapters cover improving well-being and making the best of new energy resources.

Two large international conferences on Advances in Engineering Sciences were held in Hong Kong, March 12–14, 2014, under the International MultiConference of Engineers and Computer Scientists (IMECS 2014), and in London, UK, 2–4 July, 2014, under the World

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Congress on Engineering 2014 (WCE 2014) respectively. This volume contains 37 revised and extended research articles written by prominent researchers participating in the conferences. Topics covered include engineering mathematics, computer science, electrical engineering, manufacturing engineering, industrial engineering, and industrial applications. The book offers tremendous state-of-the-art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with/on engineering sciences.

Contents: Switching Boundaries for Flexible Management of Natural Resource Investment under Uncertainty (T Tarnopolskaya, W Chen and C Bao) Using Exotic Option Prices as Control Variates in Monte Carlo Pricing Under a Local-Stochastic Volatility Model (Geoffrey Lee, Zili Zhu and Yu Tian) Multi-period Dynamic Portfolio Optimization through Least Squares Learning (C Bao, Z Zhu, N Langrené and G Lee) On General Solution of Incompressible and Isotropic Newtonian Fluid Equations (A A Maknickas) On the Inversion of Vandermonde Matrix via Partial Fraction Decomposition (Yiu Kwong Man) Fractal Fourier Coefficients with Application to Identification Protocols (Nadia M G Al-Saidi, Arkan J Mohammed, Elisha A Ogada and Adil M Ahmed) Scheduling Algorithm with Inserted Idle Time for Problem $P|prec|C_{max}$ (N S Grigoreva) Iterative Scheme for a Common Solutions of Equilibrium Problems, Variational Inequality Problems and Fixed Point Problems (Wichan Khongtham) Three-steps Iterative Method for Common Fixed Points, Variational Inclusions, and Equilibrium Problems (Yaowaluck Khongtham) Euler's Constant: A Proof of its Irrationality and Transcendence by means of Minus One Factorial (Okoh Ufuoma) Solution of Problem on Heat and Mass Transfer with Chemical Reaction over an Exponentially Accelerated Infinite Vertical Plate (A Ahmed, M N Sarki and M Ahmad) Improving Human Resource Security of a Data

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Centre: Case Study of a Hong Kong Wines and Spirits Distribution Company (Hon Keung Yau and Alison Lai Fong Cheng) Model to Measure University's Readiness for Establishing Spin-offs: Comparison Study (Wahyudi Sutopo, Rina Wiji Astuti, Yuniaristanto, Agus Purwanto and Muhammad Nizam) Preliminary Study of Solar Electricity using Comparative Analysis (Wahyudi Sutopo, Dwi Indah Maryanie, Agus Purwanto and Muhammad Nizam) Tactile Memory for Different Shapes: Implications for Shape Coding in Man-machine Interfaces (Annie W Y Ng and Alan H S Chan) Ergonomics Recommendations for Control Station Work with Head Rotation (Steven N H Tsang, Stefanie X Q Kang and Alan H S Chan) A Methodological Approach to Affective Design (Youngil Cho and Sukyoung Kim) Data Analysis by Diminishing Rates of Change and $\frac{1}{2}$ Approximation (I C Demetriou and S S Papakonstantinou) Comparing Naïve-Bayes Network Structures over Multiple Dataset (Haruna Chiroma, Abdulsalam Ya'u Gital, Adamu I Abubakar, Sanah Abdullahi Muaz, Jaafar Z Maitama and Tutut Herawan) Route Recommendation Method Based on Driver's Estimated Intention Considering Route Selection with Car Navigation (Keisuke Hamada, Shinsuke Nakajima, Daisuke Kitayama and Kazutoshi Sumiya) Adaption of the Inertia Weight using a Novel Sine-based Chaotic Map for Particle Swarm Optimization (Yu-Huei Cheng) Fast Characterization of Intravascular Tissue by Subspace Method using Target Tissue's Neighborhood Information (Shota Furukawa, Eiji Uchino, Shinichi Miwa and Noriaki Suetake) Swarm Intelligent Control Object's Movement Simulation in Net-centric Environment using Neural Networks (Viacheslav Abrosimov) The Concept of Project Time Management with the Fuzzy Buffers Approach (B?aszczyk Pawe? and B?aszczyk Tomasz) Data Driven Methods for Adaptation of ASR Systems (Akella Amarendra Babu, Yellasiri Ramadevi and Akepogu Ananda Rao) Semantic Web Improved by

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Including Class Information with the TFIDF Algorithm (Jyoti Gautam and Ela Kumar)Urban Drainage in the Metropolitan Region of Belém, Brazil: An Urbanistic Study (Juliano Pamplona Ximenes Ponte and Ana Júlia Domingues Das Neves Brandão)Finger Based Techniques for Nonvisual Touchscreen Text Entry (Mohammed Fakrudeen, Sufian Yousef, Mahdi H Miraz and Abdelrahman Hamza Hussein)LTE Downlink and Uplink Physical Layer (Temitope O Takpor and Francis E Idachaba)New Dielectric Modulated Graphene (DMG) FET-Based Sensor for High-performance Biomolecule Sensing Applications (Faycal Djefal, Abdelhamid Benhaya, Khalil Tamersit and Mohamed Meguellati)Modelling and Optimization of Avalanche Photodiode Electrical Parameters using Multiobjective Genetic Algorithm (Toufik Bendib, Lucio Pancheri, Faycal Djefal and Gian-Franco Dalla Betta)Experimental Study of Impact of Ship Electric Power Plant Configuration and Load Variation on Power Quality in the Ship Power Systems (Tomasz Tarasiuk, Andrzej Pilat, Mariusz Szweda, Mariusz Gorniak and Zenon Troka)Studying of Electroencephalographic Signal Changes Induced by Odor Exposure (Rita Jorge Cerqueira Pinto, Isabel Patrícia Pinheiro Peixoto Xavier, Maria Do Rosário Alves Calado and Sílvio José Pinto Simões Mariano)DC Motor Speed Control using FGPA (Ahmed Telba)Pellistor Gas Sensor Performance: Interface Circuitry Analysis (Hauwa Talatu Abdulkarim)Extended Research on Prefilter Bandwidth Effects in Asynchronous Sequential Symbol Synchronizers based on Pulse Comparison by both Transitions at Half Bit Rate (Antonio D Reis, Jose F Rocha, Atilio S Gameiro and Jose P Carvalho)Models of Organizational Change for Modernizing Pollution Warning Services (Anca Daniela Ionita and Mariana Mocanu)Readership: Professionals, academics and graduate students in electrical & electronic engineering, computer engineering, industrial engineering and mathematics. Key

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Features: This volume contains revised and extended research articles written by prominent researchers participating in the conferences. The book offers the state of art of tremendous advances in engineering sciences. The book can also serve as an excellent reference work for researchers and graduate students working with/on engineering

sciences. **Keywords:** Engineering Mathematics; Computer Science; Electrical Engineering; Manufacturing Engineering; Industrial Engineering; Industrial Applications

The Democratic Republic of Congo (DRC) has been called the 'worst place in the world' for women, with reports of widespread and horrific incidents of rape and sexual violence and almost complete impunity for the perpetrators of such violence. However, despite the high profile media reporting on sexual violence in the DRC, and the widely publicized responses of the international community, there is still very little real analysis of the real situation of women in the country. This book provides such detailed analysis of gender relations in the DRC, and goes beyond the usual explanations of sexual violence as a product of conflict, to examine the complex and socially constructed gender norms and roles which underlie incidences of violence. The book benefits from a comprehensive account of men's and women's roles in conflict, violence, peace building and reconstruction, and evaluates the impacts of national and international political responses. In doing so, this book provides valuable new evidence and analysis of the complex and multilayered conflicts in the DRC.

High-performance electronics are key to the U.S. Air Force's (USAF's) ability to deliver lethal effects at the time and location of their choosing. Additionally, these electronic systems must be able to withstand not only the rigors of the battlefield but be able to perform the needed mission while under cyber and electronic warfare (EW) attack. This requires a high degree of

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assurance that they are both physically reliable and resistant to adversary actions throughout their life cycle from design to sustainment. In 2016, the National Academies of Sciences, Engineering, and Medicine convened a workshop titled Optimizing the Air Force Acquisition Strategy of Secure and Reliable Electronic Components, and released a summary of the workshop. This publication serves as a follow-on to provide recommendations to the USAF acquisition community.

This book provides an introduction to the state of sustainability education in Asia. It covers national policies, institutional policies and practices within Asian universities, sustainability considerations for teacher training at schools of education, and pedagogical practices for sustainability in higher education. With contributors from universities and NGOs in Indonesia, Singapore, Malaysia, Thailand, the Philippines, Cambodia, India, China and South Korea, this volume brings together the best papers from a series of successful international conferences on post-secondary education for sustainability in Asia. The book is organized into five parts: • Part I focuses on paradigms for sustainability education • Part II looks at sustainability education contexts, strategies and outcomes at the national level • Part III gives examples of sustainability programs and strategies adopted at specific universities • Part IV highlights sustainability education research from schools of education • Part V explores specific examples of post-secondary educational practices in sustainability

The Sendai Framework for Disaster Risk Reduction 2015–2030 has identified four priority areas for Disaster Risk Reduction: understanding disaster risk; strengthening disaster risk governance to manage disaster risk; investing in disaster risk reduction for resilience and enhancing disaster preparedness for effective response; and to "Build Back Better" in

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recovery, rehabilitation and reconstruction. Although tremendous progress has been made in recent decades in understanding the workings of the Earth systems and, in particular, its impacts on and responses to human actions, there remains a continuing and pressing need for knowledge that will allow society to simultaneously reduce exposure to global environmental hazards, while also meeting economic development goals. *Exploring Natural Hazards: A Case Study Approach*, contributes to the knowledge showcasing advanced practices for the monitoring of natural hazards. Through each case study, the book examines mainly hazards arising from processes within the hydrosphere and atmosphere, triggered or exacerbated by inputs to and transfers of energy between environmental components. It discusses the causes of these phenomena, and ways in which improved policy making, sometimes coupled with the application of appropriate modern technologies, can help to reduce people's exposure to harm. Discussing challenges, lessons learned and recommendations, this book provides a snapshot of issues related to tropical cyclones and typhoons, desertification, floods, lightning as a hazard and the need for alert systems. It is a valuable resource for practitioners and professionals alike, for researchers, students and others who work at the intersection between environmental hazards, sustainable development and social justice.

Hypothetical Spacecraft and Interstellar Travel collects information about the latest and greatest hypothetical spacecraft.

People were once restricted to food native to their region and produced locally. Today, however, food from any place in the world is available, or can be made available, anywhere else. Often there is no or very little information about the nutritional and health aspects of these foods. *Nutrition and Health of Western European Foods: Traditional and Ethnic Diets* is part of

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series that will cover the entire globe and is aimed at filling the knowledge gap from traditional and scientific points of view. This volume provides an analysis of traditional and ethnic foods from Western Europe, including Ireland, the United Kingdom, Netherlands, Belgium, Luxembourg, France, and Germany. It also addresses the history of use, composition, preparation, ingredient origin, nutritional aspects, and health effects of various foods and food products in each of these countries. Nutrition and Health of Western European Foods: Traditional and Ethnic Diets ultimately presents both local and international regulations, providing suggestions to harmonize these regulations and promote global availability of these foods. Analyzes nutritional and health claims related to western European foods Includes traditional and ethnic foods from Ireland, the UK, Netherlands, Belgium, Luxembourg, France, and Germany Explores both scientific and anecdotal diet-based health claims Examines if foods meet regulatory requirements, and how to remedy noncompliance Reviews the influence of historical eating habits on today's diets

In the twenty-first century, Britain faces new challenges from disruptive technology, an ever more competitive world and an ageing population. Structured around a radical manifesto for free enterprise, *A Time for Choosing* offers a significant contribution to the public debate about the future direction of Britain's government.

This volume contains revised and extended research articles written by prominent researchers who participated in the international conference on Advances in Engineering Technologies, which was held in Hong Kong, 12-14 March, 2014. Topics covered include engineering physics, engineering mathematics, scientific computing, control theory, artificial intelligence, electrical engineering, communications systems, and industrial applications. The book offers

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the state of art of tremendous advances in engineering technologies and physical science and applications, and also serves as an excellent reference work for researchers and graduate students working with/on engineering technologies and physical science and applications. An urgent case for climate change action that forcefully sets out, in economic, ethical, and political terms, the dangers of delay and the benefits of action. The risks of climate change are potentially immense. The benefits of taking action are also clear: we can see that economic development, reduced emissions, and creative adaptation go hand in hand. A committed and strong low-carbon transition could trigger a new wave of economic and technological transformation and investment, a new era of global and sustainable prosperity. Why, then, are we waiting? In this book, Nicholas Stern explains why, notwithstanding the great attractions of a new path, it has been so difficult to tackle climate change effectively. He makes a compelling case for climate action now and sets out the forms that action should take. Stern argues that the risks and costs of climate change are worse than estimated in the landmark Stern Review in 2006—and far worse than implied by standard economic models. He reminds us that we have a choice. We can rely on past technologies, methods, and institutions—or we can embrace change, innovation, and international collaboration. The first might bring us some short-term growth but would lead eventually to chaos, conflict, and destruction. The second could bring about better lives for all and growth that is sustainable over the long term, and help win the battle against worldwide poverty. The science warns of the dangers of neglect; the economics and technology show what we can do and the great benefits that will follow; an examination of the ethics points strongly to a moral imperative for action. Why are we waiting?

A comprehensive text to the non-destructive evaluation of degradation of materials due to

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environment that takes an interdisciplinary approach Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking is an important resource that covers the critical interdisciplinary topic of non-destructive evaluation of degradation of materials due to environment. The authors—noted experts in the field—offer an overview of the wide-variety of approaches to non-destructive evaluation and various types of corrosion. The text is filled with instructive case studies from a range of industries including aerospace, energy, defense, and processing. The authors review the most common non-destructive evaluation techniques that are applied in both research and industry in order to evaluate the properties and more importantly degradation of materials components or systems without causing damage. Ultrasonic, radiographic, thermographic, electromagnetic, and optical are some of the methods explored in the book. This important text: Offers a groundbreaking interdisciplinary approach to of non-destructive evaluation of corrosion and corrosion-assisted cracking Discusses techniques for non-destructive evaluation and various types of corrosion Includes information on the application of a variety of techniques as well as specific case studies Contains information targeting industries such as aerospace, energy, processing Presents information from leading researchers and technologists in both non-destructive evaluation and corrosion Written for life assessment and maintenance personnel involved in quality control, failure analysis, and R&D, Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking is an essential interdisciplinary guide to the topic.

Compared to the conventional Rankine cycle using water, the ORC can create efficient expansion at low power, avoid superheater and offer higher thermal efficiency in low temperature application. Small-scale ORCs from several kWe to a few hundred kWe offer

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great potential for meeting the residential demand on heat and power, and are of growing interest in scientific and technical fields. However, one critical problem is the decreased device efficiency and cost-effectiveness that arises when the ORC is scaled down. In this thesis, the ORC is combined with low concentration-ratio solar collectors. The background, research trend, merits and importance of the solar ORC are described. To reduce the thermodynamic irreversibility and the cost of the system, three innovative solutions are proposed: solar ORC without heat transfer fluid (HTF), which employs two-stage collectors and heat storage units; hybrid solar power generation based on ORC and amorphous silicon cells; osmosis-driven solar ORC. Heat collection, storage and power conversion are optimized. The design, construction and test of a prototype are conducted, demonstrating the feasibility of the ORC for small-scale cogeneration. Special attention is paid to the variable operation and parameter design with respect to the condensation temperature.

Thermoregulation, Part I: From Basic Neuroscience to Clinical Neurology, Volume 154, not only reviews how body temperature regulation changes in neurological diseases, but also how this aspect affects the course and outcomes of each disease. Other sections of the volume review three therapeutic approaches that are aimed at manipulating body temperature, including induced hypothermia, induced hyperthermia and antipyretic therapy. The book is comprised of nine sections across two volumes, five dealing with the basic aspects of body temperature regulation and four dealing with the clinical aspects. Basic sections cover the Thermoregulation system, Thermoreceptors, Thermoexecutors, Neural pathways, and Thermoregulation as a homeostatic function. In addition, the book covers the physiology and neuroanatomy of the thermoregulation system and provides descriptions of how the regulation

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of body temperature intervenes with other physiological functions (such as sleep, osmoregulation, and immunity), stress, exercise and aging. Basic sections serve as an introduction to the four clinical sections: Body Temperature, Clinical Significance, Abnormal Body Temperature, Thermoregulation in Neurological Disease and Therapeutic Interventions. Presents a clear, logical pathway from the fundamental physiology of thermoregulation, through neurobiology, to clinical applications and disease Enables researchers and clinicians to better understand the value of temperature measurement in disease and the use of temperature as a therapy Integrates content from a broad field of research, including topics on the molecular physiology of temperature receptors, to the management of accidental hypothermia

Local regeneration, and action on local issues, is fundamental to the sustainability of local communities. This is especially the case in the UK, with the Government focus on such approaches as Local Enterprise Partnerships and neighbourhood development plans, and further devolution proposals in the pipeline. The Local Regeneration Handbook meets the needs of today's practising "regeneration workers", broadly including anyone from regeneration partnership or development project officers to housing association neighbourhood officers, parish councillors, or other active local citizens, who all share a concern for the wellbeing of the community where they live or work, and a need to work with others for the best possible future for that community. Containing practical advice, templates, and real-life case studies for different stages in local regeneration, including fundraising, partnership development and project management, as well as support for personal development, and illustrations of key points by cartoonist Kipper Williams, this is an essential guide for anyone in

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local regeneration.

Physical cultural studies (PCS) is a dynamic and rapidly developing field of study. This handbook offers the first definitive account of the state of the art in PCS, showcasing the latest research and methodological approaches. It examines the boundaries, preoccupations, theories and politics of PCS, drawing on transdisciplinary expertise from areas as diverse as sport studies, sociology, history, cultural studies, performance studies and anthropology.

Featuring chapters written by world-leading scholars, this handbook examines the most important themes and issues within PCS, exploring the active body through the lens of class, age, gender, sexuality, race, ethnicity, (dis)ability, medicine, religion, space and culture. Each chapter provides an overview of the state of knowledge in a particular subject area, while also considering possibilities for developing future research. Representing a landmark contribution to physical cultural studies and allied fields, the Routledge Handbook of Physical Cultural Studies is an essential text for any undergraduate or postgraduate course on physical culture, sports studies, leisure studies, the sociology of sport, the body, or sport and social theory.

CHOICE OUTSTANDING ACADEMIC TITLE 2015 Many of us think of European countries as discreet entities—their own languages, cultures, food, and economies squarely contained within their national boundaries. But in fact Europe is at once a unified place and a sophisticatedly fragmented one, and national boundaries rarely reflect its social and economic realities. The social atlas of Europe is the first atlas to map Europe according to these realities, from the perspective of human geography rather than simply a political one. Using innovative full-color visualization methods, it reconsiders European identity through its many different facets: economy, culture, history, and human and physical geography, visualizing Europe and its

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people in a more fluid way, in some cases using maps without artificial national boundaries. It utilizes the latest available demographic, social, and economic data through state-of-the-art geographical information systems and new cartography techniques. Through these new visualizations, this highly illustrated book offers fresh perspectives on a range of topics, including social values, culture, education, employment, environmental footprints, health and well-being, and social inequalities and cohesion. It is a bold rethinking of Europe as we know it and will be of interest to anyone who wants to understand the continent in its truest form. Beyond 2020, wireless communication systems will have to support more than 1,000 times the traffic volume of today's systems. This extremely high traffic load is a major issue faced by 5G designers and researchers. This challenge will be met by a combination of parallel techniques that will use more spectrum more flexibly, realize higher spectral efficiency, and densify cells. Novel techniques and paradigms must be developed to meet these goals. The book addresses diverse key-point issues of next-generation wireless communications systems and identifies promising solutions. The book's core is concentrated to techniques and methods belonging to what is generally called radio access network.

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