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For decades, governments have tried to foster industrial competitiveness and economic growth. Many instruments are known to work, and many lessons have been learned. However, humanity is increasingly feeling the effects of natural resource depletion. The rate of this depletion is deeply unsustainable, and it is – as of yet – inextricably linked to economic growth and development. To preserve acceptable living conditions for future generations, while at the same time creating these conditions for millions of poor in the first place, we must achieve a de-linking of economic activity and resource depletion. This book identifies the drivers and success factors of green industrial policy, which seeks to reconcile the synergies and trade-offs which exist between economic and environmental goals. Greening the economy is a goal which will require enormous investment. As markets are currently failing to provide the required incentives for environmental sustainability, governments must intervene and provide ‘policy rents’ for investments in sustainability while withdrawing rents from polluting investments. In this they will face the risk of political capture by interest groups and difficult choices among technologies. Rent management is therefore the heart of green industrial policy and the focus of this book. On top of this, the country examples provided in this volume focus on the emerging powers, which will have an important influence the future of our planet. However, the lessons learned are valuable not only for countries introducing green

industrial policies for the first time, but also for those under pressure to reform existing policies. This book will be of interest to students, researchers and policymakers in the areas of energy policy, sustainable development, industrial economics and ecological economics.

STEM Integration in K-12 Education examines current efforts to connect the STEM disciplines in K-12 education. This report identifies and characterizes existing approaches to integrated STEM education, both in formal and after- and out-of-school settings. The report reviews the evidence for the impact of integrated approaches on various student outcomes, and it proposes a set of priority research questions to advance the understanding of integrated STEM education. STEM Integration in K-12 Education proposes a framework to provide a common perspective and vocabulary for researchers, practitioners, and others to identify, discuss, and investigate specific integrated STEM initiatives within the K-12 education system of the United States. STEM Integration in K-12 Education makes recommendations for designers of integrated STEM experiences, assessment developers, and researchers to design and document effective integrated STEM education. This report will help to further their work and improve the chances that some forms of integrated STEM education will make a positive difference in student learning and interest and other valued outcomes. Drawing on Chinese military writings, this report finds that China's strategic-deterrence concepts are evolving in response to Beijing's changing assessment of its external

security environment and a growing emphasis on protecting its emerging interests in space and cyberspace. China also is rapidly closing what was once a substantial gap between the People's Liberation Army's strategic weapons capabilities and its strategic-deterrence concepts.

The management and balancing of social, environmental and economic sustainability is one of the most complex and urgent challenges facing both private and public sector organizations today; with these challenges of sustainability posing many risks to, and many opportunities for, advancing the aims and performance of organizations.

Accounting and accountability processes and practices provide key tools to help organizations to more effectively identify and manage the risks and opportunities of sustainability. Popular features from the first edition are retained, whilst recent developments in theory and practice are accounted for. New substantive chapters on water resource accounting, carbon accounting, and decision making have been introduced and the book continues to benefit from a host of expert contributors from around the world, including Jesse Dillard, Rob Gray, Craig Deegan. This comprehensive and authoritative textbook will continue to be a key resource for students of accounting and sustainability, as well as being a vital tool for researchers. This book highlights the development and outcomes of research on and practical experience in science education in Taiwan. As the outcomes of the scholarship on science education in Taiwan have garnered attention in science education communities

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around the world, this book gathers the most relevant research on Taiwan, presenting it in a cohesive overview that will move science education forward in terms of policy, research and practice.

This book presents a unique, interdisciplinary approach to disaster risk research, combining cutting-edge natural science and social science methodologies. Bringing together leading scientists, policy makers and practitioners from around the world, it presents the risks of global hazards such as volcanoes, seismic events, landslides, hurricanes, precipitation floods and space weather, and provides real-world hazard case studies from Latin America, the Caribbean, Africa, the Middle East, Asia and the Pacific region. Avoiding complex mathematics, the authors provide insight into topics such as the vulnerability of society, disaster risk reduction policy, relations between disaster policy and climate change, adaptation to hazards, and (re)insurance approaches to extreme events. This is a key resource for academic researchers and graduate students in a wide range of disciplines linked to hazard and risk studies, including geophysics, volcanology, hydrology, atmospheric science, geomorphology, oceanography and remote sensing, and for professionals and policy makers working in disaster prevention and mitigation.

What does university teaching – as a craft – look like? What changes does a craft perspective suggest for higher education? The Craft of University Teaching addresses these questions in both a general sense – What does the act of teaching become when

treated as a craft? What changes to a professor's educational philosophy does it require? – and with respect to the practical, everyday tasks of university professors, such as the use and misuse of technology, the handling of academic dishonesty, the assignment of course reading, and the instilling of enthusiasm for learning. Intended for professors of all academic disciplines who either enjoy teaching or wish to enjoy it more, *The Craft of University Teaching* is a provocative and accessible book containing practical advice gleaned from the academic literature on pedagogy. In an era of increased bureaucratic oversight, rapidly diminishing budgets, and waves of technological distraction, *The Craft of University Teaching* provokes reflection on matters of pedagogy that are too often taken as settled. In so doing, it seeks to reclaim teaching as the intellectually vibrant and intrinsically rewarding endeavor that it is. This book discusses Hong Kong's use of onscreen marking (OSM) in public examinations. Given that Hong Kong leads the way in OSM innovation, this book has arisen from a recognised need to provide a comprehensive, coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong. The authors discuss their experience of the validation process, demonstrating how high-stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders. This report assesses what evidence exists for the ways in which local air quality could influence local economic growth and how those effects might be relevant to the

Pittsburgh region.

Advances in Membrane Technologies for Water Treatment: Materials, Processes and Applications provides a detailed overview of advanced water treatment methods involving membranes, which are increasingly seen as effective replacements for a range of conventional water treatment methods. The text begins with reviews of novel membrane materials and advances in membrane operations, then examines the processes involved with improving membrane performance. Final chapters cover the application of membrane technologies for use in water treatment, with detailed discussions on municipal wastewater and reuse in the textile and paper industries. Provides a detailed overview of advanced water treatment methods involving membranes Coverage includes advancements in membrane materials, improvement in membrane performance, and their applications in water treatment Discusses the use of membrane technologies in the production of drinking water, desalination, wastewater treatment, and recovery

Integrated water resources management advocates a coordinated approach for managing water resources in a way that balances social and economic needs with concern for the environment. While potentially useful, integrated water management is also controversial. Supporters believe that the multi-dimensional

nature of water can only be understood and managed from a holistic perspective, while critics often argue that integrated water management lacks sufficiently well-defined rules for its practical implementation. This book, written by academics, users and practitioners, provides a down-to-earth approach to the ideal of integrated water resources management, drawing from conceptual frameworks and real-life practice to identify the key aspects that are yet to be resolved. As such, it examines the role of water accounting, food trade, environmental externalities and intangible values as key aspects whose consideration may help the water management community move forward. Overall, integrated water resources management is perceived to be a useful utopia, whose value lies more in the steps that need to be taken to make it a reality than in achieving its ever-elusive end goal.

We have an uneasy relationship with the relentless deluge of information gushing out of academia and our media outlets. To turn it off is escapist, but to attempt to cognitively grapple with it is overwhelming. In *Unforgettable: Enabling Deep and Durable Learning*, a nationally recognized master teacher gives professors and their students the means to chart a clear path through this information explosion. Humans crave explanatory patterns, and this book enables teachers to think deeply about their academic disciplines to find and articulate their core

explanatory principles and to engage their students in a compelling way of thinking. An alternative title for this book could be *Why the Best College Teachers Do What They Do* because the author articulates a compelling rationale that will equip faculty to create and deliver transformative courses. Students in transformative courses grapple with essential questions and gain mental muscle that equips them for real world challenges.

Electric Utility Resource Planning: Past, Present and Future covers the balance of renewable costs, energy storage, and flexible backstop mechanisms needed in electric utility resource planning. In addition, it covers the optimization of planning methodologies and market design. The book argues that net load, ramping and volatility concerns associated with renewables call into question the validity of almost a century of planning approaches. Finally, it suggests that accounting for flexibility helps optimize the efficiency of the entire fleet of assets, minimizing costs and CO₂ generation simultaneously, concluding that a flexible, independent backstop mechanism is needed, regardless of renewables or storage. Case studies provide a mix of hypothetical "what if" scenarios and analyses of real-life utility portfolios drawn from international examples. Examines how resource planners and policy specialists can plan to incorporate renewable generation technologies, thus uniting considerations of technology, methodology,

business and policy Focuses on the reality of long-term decision-making and planning processes in working utilities Reviews novel approaches towards resource planning that yield lower costs and CO2 Emphasizes the need for flexible backstop mechanisms to maintain reliability

The Butterfly Defect addresses the widening gap between the new systemic risks generated by globalization and their effective management. It shows how the dynamics of turbo-charged globalization has the potential and power to destabilize our societies. Drawing on the latest insights from a wide variety of disciplines, Ian Goldin and Mike Mariathan provide practical guidance for how governments, businesses, and individuals can better manage globalization and risk. Goldin and Mariathan demonstrate that systemic risk issues are now endemic everywhere—in supply chains, pandemics, infrastructure, ecology and climate change, economics, and politics. Unless we address these concerns, they will lead to greater protectionism, xenophobia, nationalism, and, inevitably, deglobalization, rising inequality, conflict, and slower growth. The Butterfly Defect shows that mitigating uncertainty and risk in an interconnected world is an essential task for our future.

As the post-invasion reconstruction of Iraq has unfolded, the potential for Iraqi women to participate actively and visibly in the country's political structure has

been one of its most notable results. The 2005 Constitution required that no less than 25% of seats in the Iraqi Parliament be filled by women. Yet despite subsequent parliamentary statistics suggesting great strides for female political participation, there has been a resounding silence on the wider implications of this quota for women in Iraqi political life. This book is the first full-length study of women's political representation in Iraq. Based on interviews with politicians and substantial media analysis, Huda Al-Tamimi outlines the political, sectarian and cultural constraints facing female Members of Parliament, and the ways in which individual women and women's organizations are actively challenging barriers to their political influence. The book is a vital contribution to discussions concerning the success and limitations of gender quotas in the Middle East. It also offers new and critical perspectives on the evolution of Iraqi politics, a subject that remains of high priority for a region and international community interested in the nation's reconstruction.

Low-tech Magazine underscores the potential of past and often forgotten technologies and how they can inform sustainable energy practices.?

Sometimes, past technologies can be copied without any changes. More often, interesting possibilities arise when older technology is combined with new knowledge and new materials, or when past concepts and traditional knowledge

are applied to modern technology. Inspiration is also to be found in the so-called “developing” world, where resource constraints often lead to inventive, low-tech solutions.

Integrated Population Biology and Modeling: Part A offers very complex and precise realities of quantifying modern and traditional methods of understanding populations and population dynamics. Chapters cover emerging topics of note, including Longevity dynamics, Modeling human-environment interactions, Survival Probabilities from 5-Year Cumulative Life Table Survival Ratios (T_{x+5}/T_x): Some Innovative Methodological Investigations, Cell migration Models, Evolutionary Dynamics of Cancer Cells, an Integrated approach for modeling of coastal lagoons: A case for Chilka Lake, India, Population and metapopulation dynamics, Mortality analysis: measures and models, Stationary Population Models, Are there biological and social limits to human longevity?, Probability models in biology, Stochastic Models in Population Biology, and more. Covers emerging topics of note in the subject matter Presents chapters on Longevity dynamics, Modeling human-environment interactions, Survival Probabilities from 5-Year Cumulative Life Table Survival Ratios (T_{x+5}/T_x), and more

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The inappropriate use of antibiotics is a primary cause of the ongoing increase in drug resistance among pathogenic bacteria. The resulting decrease in the efficacy of antibiotics threatens our ability to combat infectious diseases. Rapid, point-of-care tests to identify pathogens and better target the appropriate treatment could greatly improve the use of antibiotics. Yet there are few such tests currently available or being developed despite the rapid pace of medical innovation. Clearly something is inhibiting the much-needed development of new and more convenient diagnostic tools. This study delineates priorities for developing diagnostics to improve antibiotic prescription and use with the goal of managing and curbing the expansion of drug resistance. It calls for new approaches, particularly in the provision of diagnostic devices, and, in doing so, outlines some of the inadequacies in health, science and policy initiatives that have led to the dearth of such devices. The authors make the case that there is a clear and urgent need for innovation, not only in the technology of diagnosis, but also in public policy and medical practice to support the availability and use of better diagnostic tools. This book explores the complexities of the diagnostics market from the perspective of both supply and demand, unearthing interesting bottlenecks, some obvious, some more subtle. It calls for a multifaceted and broad policy response, and an overhaul of current practice, so that the growth of bacterial resistance can be stemmed.

The book presents an overview of the International practices and state-of-the-art of LCA studies in the agri-food sector, both in terms of adopted methodologies and application to particular products; the final purpose is to characterise and put order within the methodological issues connected to some important agri-food products (wine, olive oil, cereals and derived products, meat and fruit) and also defining practical guidelines for the implementation of LCAs in this particular sector. The first chapter entails an overview of the application of LCA to the food sector, the role of the different actors of the food supply chain and the methodological issues at a general level. The other chapters, each with a particular reference to the main foods of the five sectors under study, have a common structure which entails the review of LCA case studies of such agri-food products, the methodological issues, the ways with which they have been faced and the suggestion of practical guidelines.

Electronic Devices, Circuits, and Systems for Biomedical Applications: Challenges and Intelligent Approaches explains the latest information on the design of new technological solutions for low-power, high-speed efficient biomedical devices, circuits and systems. The book outlines new methods to enhance system performance, provides key parameters to explore the electronic devices and circuit biomedical applications, and discusses innovative materials that improve device performance, even for those with smaller dimensions and lower costs. This book is ideal for graduate students in biomedical engineering and medical informatics, biomedical engineers,

medical device designers, and researchers in signal processing. Presents major design challenges and research potential in biomedical systems Walks readers through essential concepts in advanced biomedical system design Focuses on healthcare system design for low power-efficient and highly-secured biomedical electronics

In recent years, there has been an increasing emphasis placed on local and regional integration in major planning projects and infrastructure development including roads, rail and waterways. This emphasis is not only on integrating various projects, but also integrating them with related issues such as housing, industry, environment and water. In other words, land-use planning and infrastructure management have become more spatially-oriented. This book brings together experts in the fields of spatial planning, land-use and infrastructure management to explore the emerging agenda of spatially-oriented integrated evaluation. It weaves together the latest theories, case studies, methods, policy and practice to examine and assess the values, impacts, benefits and the overall success in integrated land-use management. In doing so, the book clarifies the nature and roles of evaluation and puts forward guidance for future policy and practice.

Science and technology plays an increasingly important role in the continued development of international economic law. This book brings together well-known and rising scholars to explore the status and interaction of science, technology and international economic law. The book reviews the place of science and technology in

the development of international economic law with a view to ensure a balance between the promotion of trade and investment liberalisation and decision-making based on a sound scientific process without hampering technological development. The book features chapters from a range of experts – including Lukasz Gruszczynski, Jürgen Kurtz, Andrew Mitchell and Peter K. Yu – who examine a wide range of issues such as investment law, international trade law, and international intellectual property. By bringing together these issues, the book asks how international trade and investment regimes utilise science and technology, and whether they do so fairly and in the interest of broader public policies. This book will be of great interest to researchers of international economic law, health law, technology law and international intellectual property law.

Therapeutic risk management of medicines is an authoritative and practical guide on developing, implementing and evaluating risk management plans for medicines globally. It explains how to assess risks and benefit-risk balance, design and roll out risk minimisation and pharmacovigilance activities, and interact effectively with key stakeholders. A more systematic approach for managing the risks of medicines arose following a number of high-profile drug safety incidents and a need for better access to effective but potentially risky treatments. Regulatory requirements have evolved rapidly over the past decade. Risk management plans (RMPs) are mandatory for new medicinal products in the EU and a Risk Evaluation and Mitigation Strategy (REMS) is

needed for certain drugs in the US. This book is an easy-to-read resource that complements current regulatory guidance, by exploring key areas and practical implications in greater detail. It is structured into chapters encompassing a background to therapeutic risk management, strategies for developing RMPs, implementation of RMPs, and the continuing evolution of the risk management field. The topic is of critical importance not only to the pharmaceutical and biotechnology industries, but also regulators and healthcare policymakers. Some chapters feature contributions from selected industry experts. An up-to-date practical guide on conceiving, designing, and implementing global therapeutic risk management plans for medicines. A number of useful frameworks are presented which add impact to RMPs (Risk Management Plans), together with regional specific information (European Union, United States, and Japan). A comprehensive guide for performing risk management more effectively throughout a product's life-cycle.

The global food system is characterized by large numbers of people experiencing food insecurity and hunger on the one hand, and vast amounts of food waste and overconsumption on the other. This book brings together experiences from different countries addressing the challenges associated with food security. Seen through various disciplinary lenses the different cases included are countries at various stages of food security, with diverse stories of success as well as failures in their efforts. China, Brazil and India, as well as less developed countries in Africa and Asia, such as

Malawi, Ethiopia, Tanzania, Myanmar, Bangladesh and the Philippines. The authors pay special attention to the environmental and socio-economic challenges in the respective chapters and how they contribute to food insecurity. Each of the case studies identifies and analyzes which factors or drivers (environmental, economic, policy, technology, markets) have been the most powerful shapers of the food system and their future impact. The case studies identify interventions at regional, national and local level that contribute positively to food security, highlighting solutions that are effective and easy to implement for all levels of decision makers, from farmers to policy makers. Overall, the book provides insights in order to foster a greater understanding of the issues surrounding food security and support progress towards the goal of a sustainable food system for all.

This textbook offers an accessible introduction to the historical, technical, and strategic context of cyber conflict. The international relations, policy, doctrine, strategy, and operational issues associated with computer network attack, computer network exploitation, and computer network defense are collectively referred to as cyber warfare. This new textbook provides students with a comprehensive perspective on the technical, strategic, and policy issues associated with cyber conflict as well as an introduction to key state and non-state actors. Specifically, the book provides a comprehensive overview of these key issue areas: the historical emergence and evolution of cyber warfare, including the basic characteristics and methods of computer

network attack, exploitation, and defense; a theoretical set of perspectives on conflict in the digital age from the point of view of international relations (IR) and the security studies field; the current national perspectives, policies, doctrines, and strategies relevant to cyber warfare; and an examination of key challenges in international law, norm development, and the potential impact of cyber warfare on future international conflicts. This book will be of much interest to students of cyber conflict and other forms of digital warfare, security studies, strategic studies, defense policy, and, most broadly, international relations.

Integrated Water Resource Planning provides practical, evidence-based guidance on water resource planning. In a time of heightened awareness of ecosystem needs, climate change, and increasing and conflicting demands on resources, water professionals and decision-makers around the world are on a steep learning curve. This book presents an international examination of water reform experiences, and provides lessons in how to manage environmental uncertainties, long term management, and increase in demand. It breaks the process down into a series of common steps, applies program logic and evaluation theory, and discusses best practices in assessment, decision making and community engagement. Importantly it recognises the large variation in available knowledge and capacity, risk and scale, and discusses a range of approaches that can be used for different circumstances. The book will fill in the gaps for professionals in interdisciplinary teams including sociologists, hydrologists,

engineers, ecologists, and community consultation specialists, by providing a basic grounding in areas outside their usual expertise, and will provide ammunition to community stakeholders in their quest to ensure that water planning outcomes are justified and justifiable. Case studies provide an understanding of the context, practical tools and implementation techniques for achieving sustainable outcomes, and the multi-disciplinary approach and insights offered in this book will be transposable and instructive for water professionals worldwide.

Marketing in the digital age poses major challenges for traditional and established practices of communication. To help readers meet these challenges *Principles of Integrated Marketing Communications: An Evidence-based Approach* provides a comprehensive foundation to the principles and practices of integrated marketing communications (IMC). It examines a variety of traditional and digital channels used by professionals to create wide-reaching and effective campaigns that are adapted for the aims of their organisations. This edition has been thoroughly revised and each chapter includes: case studies of significant and award-winning campaigns from both Australian and international brands that illustrate the application of explored concepts; discussion and case study questions that enable readers to critically evaluate concepts and campaigns; a managerial application section that illustrates how concepts can be applied effectively in a real situation; a 'further thinking' section that expands knowledge of advanced concepts and challenges readers to think more broadly about IMC. According to the United Nations, 9.6 billion people will inhabit our planet by 2050. Population growth and movement will have an enormous impact on global dynamics in the twenty-first

century, in both the developing world as well as in advanced industrialized societies. In light of this global demographic reality, this issue of the Georgetown Journal of International Affairs focuses on the topic of "Destabilizing Demographics," exploring the opportunities and challenges presented by dynamic population patterns and structures. Demographic shifts affect multiple facets of international affairs, impacting economies, modifying politics, and reshaping the fabric of our societies. These changes could have catastrophic international consequences if ignored or evaded. However, as this issue's Forum demonstrates, the future holds promise for those who choose to reorganize on the cusp of significant population transformation. Adaptation as a form of mitigation must be informed by diverse solutions and multi-sectoral cooperation. Consider, for example, the intersection of family planning and climate change, or the connection between gender gaps and crime. Through pragmatic policymaking and international collaboration, seismic demographic change may not necessitate disaster. We round out this issue with articles regarding decidedly twenty-first century concerns: communication, integration, and globalization. Moha Ennaji describes the challenges of Berber language incorporation in Morocco and its significance to democratic reform. Dan Saxon examines the role of human judgment in semi-autonomous weapons use, questioning the ethics of unmanned machines. Andrés Monroy-Hernández and Luis Daniel Palacios analyze the utility, efficacy, and implications of citizen journalism within Mexico's ongoing drug war. And Lawrence Gostin and Alexandra Phelan explore how, in an increasingly interconnected world, the international community can collectively prevent and control the spread of infectious diseases. The Georgetown Journal of International Affairs is the official publication of the Edmund A. Walsh School of Foreign Service at Georgetown University. Each

issue of the journal provides readers with a diverse array of timely, peer-reviewed content penned by top policymakers, business leaders, and academic luminaries. The Journal takes a holistic approach to international affairs and features a 'Forum' that offers focused analysis on a specific key issue with each new edition of the publication, as well as nine regular sections: Books, Business & Economics, Conflict & Security, Culture & Society, Law & Ethics, A Look Back, Politics & Diplomacy, Science & Technology, and View from the Ground.

The World Ocean Assessment - or, to give its full title, The First Global Integrated Marine Assessment - is the outcome of the first cycle of the United Nations' Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects. The Assessment provides vital, scientifically-grounded bases for the consideration of ocean issues, including climate change, by governments, intergovernmental agencies, non-governmental agencies and all other stakeholders and policymakers involved in ocean affairs. Together with future assessments and related initiatives, it will support the implementation of the recently adopted 2030 Agenda for Sustainable Development, particularly its ocean-related goals. Moreover, it will also form an important reference text for marine science courses.

The aim of this book is to document for the first time the dimensions and requirements of effective integrated groundwater management (IGM). Groundwater management is a formidable challenge, one that remains one of humanity's foremost priorities. It has become a largely non-renewable resource that is overexploited in many parts of the world. In the 21st century, the issue moves from how to simply obtain the water we need to how we manage it sustainably for future generations, future economies, and future ecosystems. The focus then

becomes one of understanding the drivers and current state of the groundwater resource, and restoring equilibrium to at-risk aquifers. Many interrelated dimensions, however, come to bear when trying to manage groundwater effectively. An integrated approach to groundwater necessarily involves many factors beyond the aquifer itself, such as surface water, water use, water quality, and ecohydrology. Moreover, the science by itself can only define the fundamental bounds of what is possible; effective IGM must also engage the wider community of stakeholders to develop and support policy and other socioeconomic tools needed to realize effective IGM. In order to demonstrate IGM, this book covers theory and principles, embracing: 1) an overview of the dimensions and requirements of groundwater management from an international perspective; 2) the scale of groundwater issues internationally and its links with other sectors, principally energy and climate change; 3) groundwater governance with regard to principles, instruments and institutions available for IGM; 4) biophysical constraints and the capacity and role of hydroecological and hydrogeological science including water quality concerns; and 5) necessary tools including models, data infrastructures, decision support systems and the management of uncertainty. Examples of effective, and failed, IGM are given. Throughout, the importance of the socioeconomic context that connects all effective IGM is emphasized. Taken as a whole, this work relates the many facets of effective IGM, from the catchment to global perspective.

Recent global and national debates have shown that demographic change, the rising incidence of chronic disease, and the unmet need for more personalized care are trends demanding a new, integrated approach to health and social care. The advancement and adoption of technology in both health and social care settings is a valuable tool for encouraging change

and improving the quality and efficiency of care provided to patients and care clients. Achieving Effective Integrated E-Care Beyond the Silos presents a collection of real-life examples, frameworks, business models, financial implications, and methods of evaluating the technological tools that are enabling a more human-centered approach to health and social care. Based on relevant research in the field of integrated e-care, this publication is ideally designed for use by practitioners, researchers, and decision-makers in the care field.

Since the 1950s, under congressional mandate, the U.S. National Science Foundation (NSF) - through its National Center for Science and Engineering Statistics (NCSES) and predecessor agencies - has produced regularly updated measures of research and development expenditures, employment and training in science and engineering, and other indicators of the state of U.S. science and technology. A more recent focus has been on measuring innovation in the corporate sector. NCSES collects its own data on science, technology, and innovation (STI) activities and also incorporates data from other agencies to produce indicators that are used for monitoring purposes - including comparisons among sectors, regions, and with other countries - and for identifying trends that may require policy attention and generate research needs. NCSES also provides extensive tabulations and microdata files for in-depth analysis. Capturing Change in Science, Technology, and Innovation assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators of STI activities that would enable NCSES to respond to changing policy concerns. This report also identifies and assesses both existing and potential data resources and tools that NCSES could exploit to further develop its indicators program. Finally, the report considers strategic pathways for NCSES to move forward with an improved STI indicators program. The

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recommendations offered in Capturing Change in Science, Technology, and Innovation are intended to serve as the basis for a strategic program of work that will enhance NCSES's ability to produce indicators that capture change in science, technology, and innovation to inform policy and optimally meet the needs of its user community.

This book reviews the concept, contemporary research efforts and the implementation of Integrated Water Resources Management (IWRM). The IWRM concept was established as an international guiding water management paradigm in the early 1990ies and has become a vital approach to solving the problems associated with the topic of water. The book summarizes fourteen comprehensive IWRM research projects with worldwide coverage and analyses their motivations, settings, approaches and implementation of results. Aiming to be an up-to-date interdisciplinary scientific reference, this book provides a comprehensive theoretical and empirical analysis of contemporary IWRM research, examples of science based implementations and a synthesis of the lessons learnt. It concludes with some major future challenges, the solving of which will further strengthen the IWRM concept.

Scotland's Choices, now fully revised for the critical last few months before the referendum, explains the choice that Scotland will have to make in September 2014. The authors clearly explain the issues and how each of the options would be put into place

"This volume brings together excellent scholarship and innovative policy discussion to demonstrate the essential role of higher education in the development of Africa and of the world at large. Based on deep knowledge of the university system in several African countries, this book will reshape the debate on development in the global information economy for years to come. It should be mandatory reading for academics, policy-makers and concerned citizens,

in Africa and elsewhere.” - Manuel Castells, Professor Emeritus, University of California at Berkeley, Laureate of the Holberg Prize 2012 and of the Balzan Prize 2013.

Throughout the world, teaching is looked at as one of the most respected and noble profession a person could have. A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation. Among various exams CTET is the most popular teaching exam in the country. Central Teaching Eligibility Test (CTET) is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher. The exam is conducted into 2 papers: Paper 1 for class 1-5 and Paper 2 for class 6-8. Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers. The new the edition of Study Guide ‘Success Master CTET Social Science/ Studies Paper – II’ has been prepared completely on the latest exam pattern. The book has been divided into 5 key sections and further divided into chapters providing the focused study material. After covering theoretical part this book also concentrates on the practice part, it provides Previous Years’ Solved Paper, 2 practice sets and more than 3000 MCQs for thorough practice. Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam. This

book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam. TABLE OF CONTENT Solved Paper 2019 (December), Solved Paper 2019 (July), Solved Paper 2018 (December), Solved Paper 2016 (September), Child Development and Pedagogy, English Language and Pedagogy, Hindi Bhasha evm Shiksha Shastra, Social Science/ Studies Pedagogy, Pedagogy, Practice Sets (1-2).

The application of proper ethical systems and education programs is a vital concern in the medical industry. When healthcare professionals are held to the highest moral and training standards, patient care is improved. Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications is a comprehensive source of academic research material on methods and techniques for implementing ethical standards and effective education initiatives in clinical settings. Highlighting pivotal perspectives on topics such as e-health, organizational behavior, and patient rights, this multi-volume work is ideally designed for practitioners, upper-level students, professionals, researchers, and academics interested in the latest developments within the healthcare industry.

Achieving Effective Integrated E-Care Beyond the SilosIGI Global

This book focuses on Integrated Reporting as a contemporary social and managerial innovation where a number of initiatives, organizations and

individuals began to converge in response to the need for a consistent, collaborative and internationally accepted approach to redesign corporate reporting. Integrated Reporting is a process that results in communication of the annual “integrated report” which describes value creation over time. An integrated report is a concise communication about how an organization’s strategy, governance, performance and prospects lead to the creation of value over the short, medium and long term. This book offers a fresh perspective with expert contributions focusing on both the theoretical underpinnings and the practical challenges for the future of corporate reporting.

This open access book provides a broad context for the understanding of current problems of science and of the different movements aiming to improve the societal impact of science and research. The author offers insights with regard to ideas, old and new, about science, and their historical origins in philosophy and sociology of science, which is of interest to a broad readership. The book shows that scientifically grounded knowledge is required and helpful in understanding intellectual and political positions in various discussions on the grand challenges of our time and how science makes impact on society. The book reveals why interventions that look good or even obvious, are often met with resistance and are hard to realize in practice. Based on a thorough analysis, as well as personal

experiences in aids research, university administration and as a science observer, the author provides - while being totally open regarding science's limitations- a realistic narrative about how research is conducted, and how reliable 'objective' knowledge is produced. His idea of science, which draws heavily on American pragmatism, fits in with the global Open Science movement. It is argued that Open Science is a truly and historically unique movement in that it translates the analysis of the problems of science into major institutional actions of system change in order to improve academic culture and the impact of science, engaging all actors in the field of science and academia.

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