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KEY=SOLUTIONS - MADELINE BENJAMIN

Sustainable Solutions for Food Security Combating Climate Change by Adaptation Springer This volume is the first centralized source of technological and policy solutions for sustainable agriculture and food systems resilience in the face of climate change. The editors have compiled a comprehensive collection of the latest tested, replicable green technologies and approaches for food security, including smart crops and new agricultural paradigms, sustainable natural resources management, and strategies for risk assessment and governance. Studies from resource-constrained countries with vulnerable populations are emphasized, with contributions on multisector partnership from development professionals. Debates concerning access to climate-smart technologies, intellectual property rights, and international negotiations on technology transfer are also included. The editors are, respectively, a public health physician, a development professional and an environmental scientist. They bring their varied perspectives together to curate a holistic volume that will be useful for policy makers, scientists, community-based organizations, international organizations and researchers across the world.

Middleware Solutions for Wireless Internet of Things MDPI The proliferation of powerful but cheap devices, together with the availability of a plethora of wireless technologies, has pushed for the spread of the Wireless Internet of Things (WIoT), which is typically much more heterogeneous, dynamic, and general-purpose if compared with the traditional IoT. The WIoT is characterized by the dynamic interaction of traditional infrastructure-side devices, e.g., sensors and actuators, provided by municipalities in Smart City infrastructures, and other portable and more opportunistic ones, such as mobile smartphones, opportunistically integrated to dynamically extend and enhance the WIoT environment. A key enabler of this vision is the advancement of software and middleware technologies in various mobile-related sectors, ranging from the effective synergic management of wireless communications to mobility/adaptivity support in operating systems and differentiated integration and

management of devices with heterogeneous capabilities in middleware, from horizontal support to crowdsourcing in different application domains to dynamic offloading to cloud resources, only to mention a few. The book presents state-of-the-art contributions in the articulated WIoT area by providing novel insights about the development and adoption of middleware solutions to enable the WIoT vision in a wide spectrum of heterogeneous scenarios, ranging from industrial environments to educational devices. The presented solutions provide readers with differentiated point of views, by demonstrating how the WIoT vision can be applied to several aspects of our daily life in a pervasive manner.

Alternative Fuels and Advanced Combustion Techniques as Sustainable Solutions for Internal Combustion Engines Springer Nature This monograph covers different aspects related to utilization of alternative fuels in internal combustion (IC) engines with a focus on biodiesel, dimethyl ether, alcohols, biogas, etc. The focal point of this book is to present engine combustion, performance and emission characteristics of IC engines fueled by these alternative fuels. A section of this book also covers the potential strategies of utilization of these alternative fuels in an energy efficient manner to reduce the harmful pollutants emitted from IC engines. It presents the comparative analysis of different alternative fuels in a variety of engines to show the appropriate alternative fuel for specific types of engines. This book will prove useful for both researchers as well as energy experts and policy makers. www.owaysonline.com **ASM / MASTERS - ORALS QUESTION BANK SEGREGATED AS PER SURVEYORS** www.owaysonline.com **ASM / MASTERS - ORALS QUESTION BANK SEGREGATED AS PER SURVEYORS** visit www.owaysonline.com **Oways ASM / MASTERS - ORALS QUESTION BANK SEGREGATED AS PER SURVEYORS ****** www.owaysonline.com **** **Microbial Factories Biofuels, Waste treatment: Volume 1 Springer** This book highlights the efforts made by distinguished scientific researchers world-wide to meet two key challenges: i) the limited reserves of polluting fossil fuels, and ii) the ever-increasing amounts of waste being generated. These case studies have brought to the foreground certain innovative biological solutions to real-life problems we now face on a global scale: environmental pollution and its role in deteriorating human health. The book also highlights major advances in microbial metabolisms, which can be used to produce bioenergy, biopolymers, bioactive molecules, enzymes, etc. Around the world, countries like China, Germany, France, Sweden and the US are now implementing major national programs for the production of biofuels. The book provides information on how to meet the chief technical challenges - identifying an industrially robust microbe and cheap raw material as feed. Of the various possibilities for generating bioenergy, the most attractive is the microbial production of biohydrogen, which has recently gained significant recognition worldwide, due to its high efficiency and eco-friendly nature. Further, the book highlights factors that can make these bioprocesses more economical, especially the cost of the feed. The anaerobic digestion (AD) process is more advantageous in comparison to aerobic processes for stabilizing biowastes and producing biofuels (hydrogen, biodiesel, 1,3-propanediol, methane, electricity), biopolymers (polyhydroxyalkanoates, cellulose, exopolysaccharides) and bioactive molecules (such as enzymes, volatile fatty acids, sugars, toxins, etc.) for biotechnological and medical applications. Information is provided on how the advent of molecular

biological techniques can provide greater insights into novel microbial lineages. Bioinformatic tools and metagenomic techniques have extended the limits to which these biological processes can be exploited to improve human welfare. A new dimension to these scientific works has been added by the emergence of synthetic biology. The Big Question is: How can these Microbial Factories be improved through metabolic engineering and what cost targets need to be met? **Global Health and Volunteering Beyond Borders A Guide for Healthcare Professionals Springer** Global Health and Volunteering: A Guide for Healthcare Professionals is designed to educate volunteers to be effective partners in delivering medical services locally and globally. Healthcare professionals are increasingly interested in global health and volunteering in areas of acute need. The biggest challenge to health in many locales is the inability to access the health care system. When people do connect with medical services, medications and surgical opportunities for chronic disease (i.e. glaucoma, diabetes, or hypertension) are often not affordable or cannot be sustained for a long period of time. The contributions in this book focus on a respectful dialog with local people and a willingness to learn from new experiences on the part of the volunteer. Skills transfer from visiting personnel to local providers is featured as a means to enhance healthcare sustainability. An appreciation of differing cultures, an understanding of the local economic conditions and challenges, and strategies for collaborating with the existing medical establishment are foundations of successful volunteer experiences as highlighted in this book. Dimensions of global health such as professionalism, religious beliefs, ethical dilemmas, traditional medicine, and alternative strategies for service are addressed by experts. Written and edited by leaders in the field, many of whom have more than two decades of experience volunteering abroad, Global Health and Volunteering: A Guide for Healthcare Professionals imparts lessons learned to help the reader avoid initial mistakes, while making the global health commitment stronger. **Wong's Nursing Care of Infants and Children Australia and New Zealand Edition - E-Book FOR PROFESSIONALS Elsevier Health Sciences** This new text has been adapted from the highly trusted Wong's Nursing Care of Infants and Children to provide a reference for professional nurses working in paediatric and child and family health settings in Australia and New Zealand. The content covers all aspects of infant, child and adolescent care, including anatomy and physiology, child and adolescent mental health, nursing care guidelines, critical thinking, family-centred care, rural and remote health, cultural and psychosocial considerations, common presenting conditions, and therapeutic management. With input from leading local expert paediatric clinicians and academics, and carefully curated for practising paediatric nurses, and nurses newly entering paediatrics, the text aligns with local professional standards, health policies, legal and ethical considerations and population data. Well-established, comprehensive text that focuses on clinical relevance for professional nurses Covers all aspects of infant, child and adolescent health through an assessment and management approach Foundational information builds a solid knowledge base in paediatric nursing Written to help nurses develop a deeper understanding of the psychosocial needs of infants, children, adolescents and their families Case studies and research questions to build critical thinking skills Aligned to National Safety and Quality Health Service (NSQHS) Standards User-friendly, accessible content

suitable for practising paediatric nurses across a variety of clinical settings and geographic locations **Advances in Communication Networking 19th EUNICE/IFIP EG WG 6.6 International Workshop, Chemnitz, Germany, August 28-30, 2013, Proceedings Springer** This book constitutes the refereed proceedings of the 19th EUNICE/IFIP WG 6.2, 6.6 workshop on Advances in Communication Networking, EUNICE 2013, held in Chemnitz, Germany, in August 2013. The 23 oral papers demonstrated together with 9 poster presentations were carefully reviewed and selected from 40 submissions. The papers are organized in topical sections on network modeling and design, traffic analysis, network and traffic management, services over mobile networks, monitoring and measurement, security concepts, application of ICT in smart grid and smart home environments, data dissemination in ad-hoc and sensor networks, and services and applications. **Security Solutions for Hyperconnectivity and the Internet of Things IGI Global** The Internet of Things describes a world in which smart technologies enable objects with a network to communicate with each other and interface with humans effortlessly. This connected world of convenience and technology does not come without its drawbacks, as interconnectivity implies hackability. Security Solutions for Hyperconnectivity and the Internet of Things offers insights from cutting-edge research about the strategies and techniques that can be implemented to protect against cyber-attacks. Calling for revolutionary protection strategies to reassess security, this book is an essential resource for programmers, engineers, business professionals, researchers, and advanced students in relevant fields. **Sustainable Logistics and Production in Industry 4.0 New Opportunities and Challenges Springer Nature** This book proposes essential methods, models, and case studies for Sustainable Logistics and Production in Industry 4.0. In addition to identifying and discussing various challenges and future prospects, it also features numerous case studies and quantitative research from different sectors. The authors (which include academics and managers) present insightful tips on the technical, organizational and social aspects of implementing Sustainable Logistics and Production in Industry 4.0. In today's world, changes are coming faster and more unpredictably. Production is becoming more automated, computerized and complex. In short, Industry 4.0 is creating many new opportunities, but at the same time several new challenges. This book offers a valuable resource for all academics and practitioners who want to deepen their knowledge of Sustainable Logistics and Production in Industry 4.0. **Progress in Advanced Computing and Intelligent Engineering Proceedings of ICACIE 2020 Springer Nature** This book focuses on theory, practice and applications in the broad areas of advanced computing techniques and intelligent engineering. This book includes 74 scholarly articles which were accepted for presentation from 294 submissions in the 5th ICACIE during 25-27 June 2020 at Université des Mascareignes (UdM), Mauritius, in collaboration with Rama Devi Women's University, Bhubaneswar, India, and S'O'A Deemed to be University, Bhubaneswar, India. This book brings together academicians, industry persons, research scholars and students to share and disseminate their knowledge and scientific research work related to advanced computing and intelligent engineering. It helps to provide a platform to the young researchers to find the practical challenges encountered in these areas of research and the solutions adopted. The book helps to

disseminate the knowledge about some innovative and active research directions in the field of advanced computing techniques and intelligent engineering, along with some current issues and applications of related topics. **Handbook of Research on Interdisciplinary Approaches to Decision Making for Sustainable Supply Chains IGI Global** Businesses must create initiatives and adopt eco-friendly practices in order to adhere to the sustainability goals of a globalized world. Recycling, product service systems, and green manufacturing are just a few methods businesses use within a sustainable supply chain. However, these tools and techniques must also ensure business growth in order to remain relevant in an environmentally-conscious world. The Handbook of Research on Interdisciplinary Approaches to Decision Making for Sustainable Supply Chains provides interdisciplinary approaches to sustainable supply chain management through the optimization of system performance and development of new policies, design networks, and effective reverse logistics practices. Featuring research on topics such as industrial symbiosis, green collaboration, and clean transportation, this book is ideally designed for policymakers, business executives, warehouse managers, operations managers, suppliers, industry professionals, sustainability developers, decision makers, students, academicians, practitioners, and researchers seeking current research on reducing the environmental impacts of businesses via sustainable supply chain planning. **Software Language Engineering 4th International Conference, SLE 2011, Braga, Portugal, July 3-4, 2011, Revised Selected Papers Springer** This book constitutes the thoroughly refereed post-proceedings of the 4th International Conference on Software Language Engineering, SLE 2011, held in Braga, Portugal, in July 2011. The 18 papers presented together with 4 tool/language demonstration papers were carefully reviewed and selected from numerous submissions. SLE's foremost mission is to encourage and organize communication between communities that have traditionally looked at software languages from different, more specialized, and yet complementary perspectives. SLE emphasizes the fundamental notion of languages as opposed to any realization in specific technical spaces. **Agroforestry Systems in India: Livelihood Security & Ecosystem Services Springer Science & Business Media** Agroforestry, the word coined in early seventies, has made its place in all the developed and the developing countries of the world and is now recognized as an important approach to ensuring food security and rebuilding resilient rural environments. India has been an all-time leader in agroforestry. The South and Southeast Asia region comprising India is often described as the cradle of agroforestry. Almost all forms of agroforestry systems exist across India in ecozones ranging from humid tropical lowlands to high-altitude and temperate biomes, and perhumid rainforest zones to parched drylands. The country ranks foremost among the community of nations not only in terms of this enormous diversity and long tradition of the practice of agroforestry, but also in fostering scientific developments in the subject. Agroforestry applies to private agricultural and forest lands and communities that also include highly erodible, flood-prone, economically marginal and environmentally sensitive lands. The typical situation is agricultural, where trees are added to create desired benefits. Agroforestry allows for the diversification of farm activities and makes better use of environmental resources. Owing to an increase in the population of human and cattle, there is increasing demand of food as well as

fodder, particularly in developing countries like India. So far, there is no policy that deals with specifics in agroforestry in India. But, the Indian Council of Agricultural Research has been discussing on the scope of having a National Agroforestry Policy in appropriate platforms. However, evolving a policy requires good and reliable datasets from different corners of the country on the subject matter. This synthesis volume containing 13 chapters is an attempt to collate available information in a classified manner into different system ecologies, problems and solutions, and converging them into a policy support. **Pediatric Palliative Care: Global**

Perspectives Springer Science & Business Media The first of its kind, this book describes pediatric palliative care in more than 23 countries. Each region in the world is covered and countries included are both resource poor and rich. Authors are multidisciplinary and regarded nationally and internationally in their field. Clinicians, advocates, policymakers, funders, and researchers will learn how programs were developed and implemented in each country. Authors describe children for whom pediatric palliative care is needed and provided for in their country. When applicable, a brief history of pediatric palliative care is included noting especially policy changes and legislative acts. For example, the chapter on Poland describes how pediatric palliative care grew from the Catholic church into a national movement spearheaded by several health care workers. The Pole national spirit that brought them through a change in political regime has also been a driving force in the pediatric palliative care movement. The chapter on South Africa, for example, illustrates how a resource poor country has been able to leverage philanthropic and government funding to make its dream of having an infrastructure of pediatric palliative care a reality. These are just a few examples of the inspiring stories that are included in this book. Readers from countries who wish to start a pediatric palliative care program, or advance an existing program, will learn valuable lessons from others who have faced similar barriers. Introduction and concluding chapters highlight the strengths and weaknesses of the modern pediatric palliative care movement. **Gluten-Free Food Science and Technology John Wiley & Sons**

Coeliac disease (CD) and other allergic reactions/intolerances to gluten are on the rise, largely due to improved diagnostic procedures and changes in eating habits. The worldwide incidence of coeliac disease has been predicted to increase by a factor of ten over the next number of years, and this has resulted in a growing market for high quality gluten-free cereal products. However, the removal of gluten presents major problems for bakers. Currently, many gluten-free products on the market are of low quality and short shelf life, exhibiting poor mouthfeel and flavour. This challenge to the cereal technologist and baker alike has led to the search for alternatives to gluten in the manufacture of gluten-free bakery products. This volume provides an overview for the food industry of issues related to the increasing prevalence of coeliac disease and gluten intolerance. The properties of gluten are discussed in relation to its classification and important functional characteristics, and the nutritional value of gluten-free products is also addressed. The book examines the diversity of ingredients that can be used to replace gluten and how the ingredient combinations and subsequent rheological and manufacturing properties of a range of gluten-free products, e.g. doughs, breads, biscuits and beer may be manipulated. Recommendations are given regarding the most suitable ingredients for different gluten-free products. The book is

directed at ingredient manufacturers, bakers, cereal scientists and coeliac associations and societies. It will also be of interest to academic food science departments for assisting with undergraduate studies and postgraduate research. The Author Dr Eimear Gallagher, Ashtown Food Research Centre, Teagasc - The Irish Agriculture and Food Development Authority, Dublin, Ireland Also available from Wiley-Blackwell Management of Food Allergens Edited by J. Coutts and R. Fielder ISBN 9781405167581 Bakery Manufacture and Quality - Water Control and Effects Second Edition S. Cauvain and L. Young ISBN 9781405176132 Whole Grains and Health Edited by L. Marquart et al ISBN 9780813807775 **Bibliographic Guide to Government Publications foreign Arsenic Water Resources Contamination Challenges and Solutions Springer** This edited volume brings together a diverse group of environmental science, sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination. The book sheds light on this global environmental issue, and proposes solutions to aquatic contamination through a multi-disciplinary lens and case studies from Bangladesh and India. The book may serve as a reference to environment and sustainability researchers, students and policy makers. Part one of the book describes the issue of arsenic contamination in ground water and river basins, including its source and distribution in specific locations in India. Part two explains the routes of exposure to environmental arsenic, its transport in aquatic ecosystems, and the health risks linked to arsenic exposure in food and the environment. Part three addresses sustainable arsenic contamination mitigation strategies and policies, the socioeconomic, demographic, cultural and psychological aspects of arsenic contamination, and the potential applications of GIS and remote sensing in providing solutions. Part four concludes by discussing the role of local and regional institutions in water resources management for a variety of issues including but not limited to arsenic contamination, and presents a case study in the Indus river basin in Pakistan to propose future contamination mitigation strategies. **Essentials of Hospital Infection Control Jaypee Brothers Medical Publishers Web-Based Services: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications IGI Global** The recent explosion of digital media, online networking, and e-commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. Web-Based Services: Concepts, Methodologies, Tools, and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network, providing researchers, computer scientists, web developers, and digital experts with the latest knowledge and developments in Internet technologies. **Educational Accountability International perspectives on challenges and possibilities for school leadership Routledge** Educational Accountability: International perspectives on challenges and possibilities for school leadership provides an opportunity to assess, reflect on, and discuss current issues surrounding accountability policies in education from around the globe and the implications they hold for school leadership. It addresses the global

trend of accountability policies expanding in scope to include the education profession as well as the increasing incidence of international policy borrowing, brought on chiefly by globalisation. Specific case studies offer a contextual examination of the theory, policy and practice of accountability and an inspection of their influence on school leadership. Cases are intentionally juxtaposed to provide a broad perspective of regional and cultural similarities and departures, and are arranged to reflect the diasporic Chinese, Anglo, European, and Hispanic societies. Bringing together a number of highly regarded experts within the field, the book cultivates a global perspective on the challenges and possibilities for school leaders to foster school effectiveness and improvement. Educational Accountability should be key reading for researchers, policy makers, and current and future school leaders.

Carotenoids and Vitamin A in Translational Medicine CRC Press Vitamin A (retinol) is an essential dietary compound with myriad metabolic and regulatory functions. Deficiency can result in vision problems, compromised immune responses, and a host of other medical issues. More than 600 carotenoids have been identified in plants, algae, fungi, and bacteria, and around 50 carotenoids—including β -carotene—can be converted into vitamin A. Carotenoids and Vitamin A in Translational Medicine reviews the medical use of carotenoids and vitamin A in cancer; diseases of the skin, eye, ear, and lung; and inflammatory bowel and metabolic diseases. It also discusses the analytics of carotenoids and the supply of carotenoids and vitamin A in developing countries. Serving a broad community of researchers and practitioners conducting basic and clinical analysis on carotenoids and vitamin A for medical purposes, the book evaluates basic research, epidemiological studies, and clinical trials in the field. It updates information on the worldwide problem of vitamin A deficiency and discusses extensively the pros and cons of carotenoid supplementation in cancer. The authors provide a comprehensive overview of the efforts made in the field of carotenoid research with respect to translational medicine and present the future outlook on carotenoids as new therapeutic agents. It is the editors' intent through the contributions in this volume to expand this important discussion on therapeutic approaches using carotenoids and retinoids. In doing so, they hope to enhance the quality of research which brings safe, effective, and clinically proven medicines to patients.

Web Services: Concepts, Methodologies, Tools, and Applications IGI Global Web service technologies are redefining the way that large and small companies are doing business and exchanging information. Due to the critical need for furthering automation, engagement, and efficiency, systems and workflows are becoming increasingly more web-based. Web Services: Concepts, Methodologies, Tools, and Applications is an innovative reference source that examines relevant theoretical frameworks, current practice guidelines, industry standards and standardization, and the latest empirical research findings in web services. Highlighting a range of topics such as cloud computing, quality of service, and semantic web, this multi-volume book is designed for computer engineers, IT specialists, software designers, professionals, researchers, and upper-level students interested in web services architecture, frameworks, and security.

Linking rural farmers to markets using ICTs CTA Access to markets and marketing information by smallholder farmers depending on agriculture in developing countries have always been challenging.

Factors such as poor road infrastructure, illiteracy, financial constraints, poor communication means and lack of access to information, all limited their access to markets. These smallholders depend on traditional means of communication and sell their produce at the farm gate and local markets. This has not been fruitful for these poor farmers as traders, intermediaries and other stakeholders in the chain take a large share of their produce. As a result, rural farmers remain poor and agriculture contributes little to their income, economy and welfare. **Sustainable Agricultural Development An Economic Perspective Springer Nature** This book provides a non-technical, accessible primer on sustainable agricultural development and its relationship to sustainable development based on three analytical pillars. The first is to understand agriculture as complex physical-biological-human systems. Second is the economic perspective of understanding tradeoffs and synergies among the economic, environmental and social dimensions of these systems at farm, regional and global scales. Third is the understanding of these agricultural systems as the supply side of one sector of a growing economy, interacting through markets and policies with other sectors at local, national and global scales. The first part of the book introduces the concept of sustainability and develops an analytical framework based on tradeoffs quantified using impact indicators in the economic, environmental and social domains, linking this framework to the role of agriculture in economic growth and development. Next the authors introduce the reader to the sustainability challenges of major agroecosystems in the developing and industrialized worlds. The concluding chapter discusses the design and implementation of sustainable development pathways, through the expression of consumers' desire for sustainably produced foods on the demand side of the food system, and through policies on the supply side such as new more sustainable technologies, environmental regulation and payments for ecosystem services. **Food security in a world of natural resource scarcity The role of agricultural technologies Intl Food Policy Res Inst** The world's population is expected to reach 9 billion by 2050. Climate change, population, and income growth will drive food demand in the coming decades. Baseline scenarios show food prices for maize, rice, and wheat would significantly increase between 2005 and 2050, and the number of people at risk of hunger in the developing world would grow from 881 million in 2005 to more than a billion people by 2050. **Food Security in a World of Natural Resource Scarcity: The Role of Agricultural Technologies** examines which current and potential strategies offer solutions to fight hunger. The type and effectiveness of agricultural technologies are highly debated, and the debates are often polarized. Technology options are many, but transparent evidence-based information has been inconclusive or scarce. This book endeavors to respond to the challenge of growing food sustainably without degrading our natural resource base. The authors use a groundbreaking modeling approach that combines comprehensive process-based modeling of agricultural technologies with sophisticated global food demand, supply, and trade modeling. This approach assesses the yield and food impact through 2050 of a broad range of agricultural technologies under varying assumptions of climate change for the three key staple crops: maize, rice, and wheat. Geared toward policymakers in ministries of agriculture and national agricultural research institutes, as well as multilateral development banks and the private sector, **Food Security in a World of Natural Resource Scarcity** provides guidance on various

technology strategies and which to pursue as competition grows for land, water, and energy across productive sectors and even increasingly across borders. The book is an important tool for targeting investment decisions today and going forward. **Smart Health International Conference, ICSH 2013, Beijing, China, August 3-4, 2013. Proceedings Springer** This book constitutes the refereed proceedings of the International Conference for Smart Health, ICSH 2013, held in Beijing, China, in August 2013. The 15 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on Information Sharing, Integrating and Extraction; Mining Clinical and Medical Data; Smart Health Applications. **Handbook of Global Tuberculosis Control Practices and Challenges Springer** This ambitious reference surveys worldwide efforts at controlling the spread of tuberculosis, with special emphasis on the developing world. Case studies from China, Pakistan, Nigeria, Indonesia, and other frontline countries demonstrate a wealth of information on clinical, cultural, socioeconomic, and other relevant factors. This compilation provides a valuable resource for creating successful intervention and prevention strategies. State-of-the-science snapshots pinpoint where short- and long-term initiatives stand today, from early detection and vaccination programs to new genetic technologies and drug therapies. This diverse group of perspectives and approaches offers innovative paths toward control and realistic odds for containing the threat, especially in the face of current co-epidemics and new drug-resistant strains. Among the topics in the Handbook: Diagnosis of tuberculosis: current pipeline, unmet needs, and new developments Concurrence of tuberculosis and other major diseases The tuberculosis outbreak response, investigation, and control The promise of new TB vaccines DNA fingerprinting of Mycobacterium tuberculosis: a rich source of fundamental and daily applicable knowledge Global tuberculosis surveillance The Handbook of Global Tuberculosis Control is urgent reading for leadership and staff of non-governmental organizations, government agencies, academic institutions, research centers, hospitals, and potentially businesses with interests in tuberculosis control. Additionally, the book's focus on TB in developing countries will attract a wider audience of practitioners, particularly those working in the broader fields of global public health, epidemiology, international development, and the socioeconomics of infectious diseases. **Hydrogen Production by Electrolysis John Wiley & Sons** Covering the various aspects of this fast-evolving field, this comprehensive book includes the fundamentals and a comparison of current applications, while focusing on the latest, novel achievements and future directions. The introductory chapters explore the thermodynamic and electrochemical processes to better understand how electrolysis cells work, and how these can be combined to build large electrolysis modules. The book then goes on to discuss the electrolysis process and the characteristics, advantages, drawbacks, and challenges of the main existing electrolysis technologies. Current manufacturers and the main features of commercially available electrolyzers are extensively reviewed. The final chapters then present the possible configurations for integrating water electrolysis units with renewable energy sources in both autonomous and grid-connected systems, and comment on some relevant demonstration projects. Written by an internationally renowned team from academia and industry, the result is an invaluable review of the field and a

discussion of known limitations and future perspectives. **Journal of Development Policy Review (JDPR) Vol. 1 Issues. 1 and 2 (2020): Special Issue - The COVID-19 Pandemic and India IndraStra Global e-Journal Hosting Services** This special issue of the Journal of Development Policy Review (JDPR) focuses on the 'COVID-19 Pandemic and India'. The whole journal divided into the following sections: Insights, Policy Perspectives, Special Articles, Young Voices, and Report Review. Articles in these sections cover the COVID-19 pandemic that has already posed and continues to pose innumerable challenges for policymakers and citizens across the globe. **Emerging Eco-friendly Green Technologies for Wastewater Treatment Springer Nature** As we know, rapid industrialization is a serious concern in the context of a healthy environment and public health due to the generation of huge volumes of toxic wastewater. Although various physico-chemical and biological approaches are available for the treatment of this wastewater, many of them are not effective. Now, there a number of emerging ecofriendly, cost-effective approaches utilizing microorganisms (bacterial/fungi/algae), green plants or their enzymes, and constructed wetland treatment systems in the treatment of wastewaters containing pollutants such as endocrine disrupting chemicals, toxic metals, pesticides, dyes, petroleum hydrocarbons and phenolic compounds. This book provides a much-needed, comprehensive overview of the various types of wastewater and their ecotoxicological effects on the environment, humans, animals and plants as well as various emerging and eco-friendly approaches for their treatment. It provides insights into the ecological problems and challenges in the treatment and management of wastewaters generated by various sources. **The Sunlight Solution Why More Sun Exposure and Vitamin D are Essential to Your Health** In this informative overview of an often-neglected topic, Carlson examines the historical and cultural factors that have created an indoor lifestyles and the medical evidence that suggests that people need to get out in the sun. **Plane Trigonometry Taxation for Sustained Prosperity Collaborative Tax Policy Setting & Administration Bublish, Inc.** The primary business of government is to develop, implement, and strengthen the conditions that enhance the quality of life of all citizens. Taxation is required to fund government operations to produce and deliver the essential public goods and services that enhance and strengthen citizens' quality of life and standard of living. Countries like Ethiopia that are not endowed with natural resources such as oil, minerals, and precious metals rely heavily on tax revenues collected from citizens, residents, and businesses. To effectively achieve this goal, government policymakers must understand: · What matters for quality of life? · What must be done to enhance citizens' quality of life? · How would the government fund the programs designed to improve citizens' living standards over the next ten years? And · How must the government collaborate with citizens, businesses, residents, and development partners to implement and manage programs that tangibly improve citizens' quality of life? Citizens' quality of life and living standards are inextricably linked to the quantity, quality, and access to education, healthcare services, clean water, sanitation, agriculture and nutritious food supplies, peace, justice and security, transport, and communication infrastructures, including roads, bridges, telecommunications, and internet connectivity, among others. Quality of life and citizens' living standards are also conditional on citizens' income-generating abilities, productivity,

and overall national income equality. Developing and strengthening the conditions that enhance citizens' standard of living require massive amounts of investments. A primary source of funds is tax revenue collected from citizens, businesses, and residents. Taxes are imposed by law. This book links taxation with citizens' prosperity and well-being. It identifies how a tax policy should be formulated and how effectively, equitably, and efficiently taxes should be collected.

Advanced Problems In Physical Chemistry For Competitive Examination Pearson Education India Advanced Problems in Physical Chemistry has been conceived to meet the specific requirements of the students preparing for IIT-JEE, Olympiad and other competitive examinations. This book provides a comprehensive and systematic coverage of problems in physical chemistry and enables quick applications of concepts through numerous problems provided in each chapter. The problems are graded as per JEE Main and Advanced respectively. The best way to ensure that students understand the concepts of physical chemistry is to solve as many problems on each topic. This book is a must-have resource for candidates preparing for JEE Main and Advanced exams.

Sustainable Mobility for Island Destinations Springer Nature The Other Side of ADHD Attention Deficit Hyperactivity Disorder Exposed and Explained Radcliffe Publishing The author deals with some of the controversial aspects of ADHD that help maintain its status as the most hotly debated subject in children's mental health. The book draws together the many issues that ADHD raises, clinically, socially, philosophically, ethically and politically. The result is a challenge that goes far beyond this diagnostic label, and reaches into just about every aspect of our lives.

UN Millennium Development Library: Toward Universal Primary Education "Investments, Incentives and Institutions" Taylor & Francis The Millennium Development Goals, adopted at the UN Millennium Summit in 2000, are the world's targets for dramatically reducing extreme poverty in its many dimensions by 2015 income poverty, hunger, disease, exclusion, lack of infrastructure and shelter while promoting gender equality, education, health and environmental sustainability. These bold goals can be met in all parts of the world if nations follow through on their commitments to work together to meet them. Achieving the Millennium Development Goals offers the prospect of a more secure, just, and prosperous world for all. The UN Millennium Project was commissioned by United Nations Secretary-General Kofi Annan to develop a practical plan of action to meet the Millennium Development Goals. As an independent advisory body directed by Professor Jeffrey D. Sachs, the UN Millennium Project submitted its recommendations to the UN Secretary General in January 2005. The core of the UN Millennium Project's work has been carried out by 10 thematic Task Forces comprising more than 250 experts from around the world, including scientists, development practitioners, parliamentarians, policymakers, and representatives from civil society, UN agencies, the World Bank, the IMF, and the private sector. This report lays out the recommendations of the UN Millennium Project Task Force on Education and Gender Equality. In the education sector, the Task Force recommends that countries now off track expand access, overcome demand-side barriers, and implement institutional changes to make the education system more responsive and accountable. As part of a compact with low-income countries working toward the goal of 100% primary school completion by 2015, donors and the international community must fulfill

commitments already made under the Fast Track Initiative, and commit to still greater levels of support. **Toward Universal Primary Education Investments, Incentives, and Institutions Earthscan** First Published in 2005. Routledge is an imprint of Taylor & Francis, an informa company. **Intelligent Computing and Communication Systems Springer Nature** This book discusses a number of intelligent algorithms which are being developed and explored for the next-generation communication systems. These include algorithms enabled with artificial intelligence, machine learning, artificial neural networks, reinforcement learning, fuzzy logic, swarm intelligence and cognitive capabilities. The book provides a comprehensive and insightful understanding of these algorithms, in context with their applications developed recently and also for immediate future communication technologies. It also covers the topics on how to develop intelligent algorithms for computing functionality in the end-to-end networking platforms. Moreover, the book also covers the recent developments, open technological challenges and future directions in the areas of data analysis, applications of the game theory, autonomous entities, evolutionary computation, smart ubiquitous computing and intelligent architectures with major focus on communication technologies and computing platforms.