Teccnical University Of Kenya April 2015 Intake

An Aging World Kevin G. Kinsella 2001 Provides statistical information on the worldwide population of people 65 years old or older. **Enhancing the Climate Resilience of Africa's** Infrastructure Raffaello Cervigni 2015-09-01 To sustain Africa's growth, and accelerate the eradication of extreme poverty, investment in infrastructure is fundamental. In 2010, the Africa Infrastructure Country Diagnostic found that to enable Africa to fill its infrastructure gap, some US\$ 93 billion per year for the next decade will need to be invested. The Program for Infrastructure Development in Africa (PIDA), endorsed in 2012 by the continent's Heads of State and Government, lays out an ambitious long-term plan for closing Africa's infrastructure including trough step increases in hydroelectric

power generation and water storage capacity. Much of this investment will support the construction of long-lived infrastructure (e.g. dams, power stations, irrigation canals), which may be vulnerable to changes in climatic patterns, the direction and magnitude of which remain significantly uncertain. Enhancing the Climate Resilience of Africa 's Infrastructure evaluates -using for the first time a single consistent methodology and the state-of-the-arte climate scenarios-, the impacts of climate change on hydro-power and irrigation expansion plans in Africa's main rivers basins (Niger, Senegal, Volta, Congo, Nile, Zambezi, Orange); and outlines an approach to reduce climate risks through suitable adjustments to the planning and design process. The book finds that failure to integrate climate change in the planning and

design of power and water infrastructure could entail, in scenarios of drying climate conditions, losses of hydropower revenues between 5% and 60% (depending on the basin); and increases in consumer expenditure for energy up to 3 times the corresponding baseline values. In in wet climate scenarios, business-as-usual infrastructure development could lead to foregone revenues in the range of 15% to 130% of the baseline, to the extent that the larger volume of precipitation is not used to expand the production of hydropower. Despite the large uncertainty on whether drier or wetter conditions will prevail in the future in Africa, the book finds that by modifying existing investment plans to explicitly handle the risk of large climate swings, can cut in half or more the cost that would accrue by building infrastructure on the basis of the climate of the past.

Sustainable healthy diets Food and Agriculture Organization of the United Nations 2019-10-15 Considering the detrimental

environmental impact of current food systems, and the concerns raised about their sustainability, there is an urgent need to promote diets that are healthy and have low environmental impacts. These diets also need to be socio-culturally acceptable and economically accessible for all. Acknowledging the existence of diverging views on the concepts of sustainable diets and healthy diets, countries have requested guidance from the Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO) on what constitutes sustainable healthy diets. These guiding principles take a holistic approach to diets; they consider international nutrition recommendations: the environmental cost of food production and consumption; and the adaptability to local social, cultural and economic contexts. This publication aims to support the efforts of countries as they work to transform food systems to deliver on sustainable healthy diets, contributing to the achievement of

the SDGs at country level, especially Goals 1 (No Poverty), 2 (Zero Hunger), 3 (Good Health and Well-Being), 4 (Quality Education), 5 (Gender Equality) and 12 (Responsible Consumption and Production) and 13 (Climate Action).

Improving household consumption and expenditure surveys' food consumption metrics Fiedler, John L. 2016-11-18 As the nature of global malnutrition changes, there is a growing need and increasing urgency for more and better information about food consumption and dietary patterns. The past two decades have seen a dramatic increase in the number. availability, and analysis of the food consumption data collected in a variety of multipurpose household surveys, referred to collectively as household consumption and expenditure surveys (HCESs). These surveys are heterogeneous, and their quality varies substantially by country. Still, they share some common shortcomings in their measurement of food consumption, nutrient intakes, and

nutrition status that undermine their relevance and reliability for purposes of designing and implementing food policies and programs. This review crafts a strategic approach to the unfinished global agenda of improving HCESs' collection of food consumption data. Starting with the priority studies recommended by a 100country HCES review (Smith, Dupriez, and Troubat 2014), it focuses on a strategic subset of those studies that deal most directly and exclusively with the measurement of food, and that are of fundamental importance to all HCES stakeholders in low- and middle-income countries. Drawing from the literature, this study provides a more detailed, more circumspect justification as to why these particular studies are needed, while identifying key hypotheses, explaining why these studies are of growing urgency, and demonstrating why now is a propitious time for undertaking them. The review also identifies important study design considerations while pointing out

potential challenges to successful implementation stemming from technical capacity, economic, administrative, and political considerations. Six key studies are rank ordered from a global perspective as follows, taking into account (1) the likely shared consensus that a topic is an important source of measurement error in estimating consumption; (2) the perceived urgency of the need for addressing a particular source of measurement error; (3) the perceived likelihood of success—that is, that the efforts will improve the accuracy of measurement; (4) whether or not the study entails modifying the questionnaire; (5) the ease with which a study may begin; and (6) the extent to which the study is independent of necessary negotiations with existing HCES stakeholders because of the types of changes it is likely to entail (in either the questionnaire or the way the data have traditionally been processed). The Economics of Integrated Pest Management of Insects David W Onstad 2019-09-02 The book

begins by establishing an economic framework upon which to apply the principles of IPM. Then, it looks at the entomological applications of economics, specifically, economic analyses concerning chemical, biological, cultural, and genetic control tactics as well as host plant resistance and the cost of sampling. Lastly it evaluates whether the control provided by a traditional IPM system is sufficient, or if changes to the system design would yield greater benefits.

Environmental Risk Assessment of
Genetically Modified Organisms David Alan
Andow 2008 Challenges and Opportunities with
GM Crops in Vietnam: the Case of Bt Cotton;
Cotton Production in Vietnam; Consideration of
Problem Formulation an Option Assessment
(PFOA) for Environmental Risk Assessment: Bt
Cotton in Vietnam; Transgene Locus Structure
and Expression; Non-target and Biological
Diversity Risk Assessment; Potential Effect of
Transgenic Cotton on Non-target Herbivores in

Vietnam: Invertebrate Predators in Bt Cotton in Vietnam: Techniques for Prioritizing Species and Developing Risk Hypotheses for Risk Assessment; Potential Effects of Transgenic Cotton on Non-target Insect Parasitoids in Vietnam; Potential Effects of Transgenic Cotton on Flower Visitors in Vietnam: Potential Effects of Transgenic Cotton on Soil Ecosystem Processes in Vietnam: Environmental Risks Associated with Gene Flow from Transgenic Cotton in Vietnam: Resistance Risk Assessment and Management for Bt Cotton in Vietnam; Challenges and Opportunities with Bt Cotton in Vietnam: Synthesis and Recommendations. **UNESCO Science Report** UNESCO 2021-06-18 WHO Recommendations for Prevention and **Treatment of Maternal Peripartum Infections** World Health Organization 2016-02-12 The goal of the present guideline is to consolidate guidance for effective interventions that are needed to reduce the global burden of maternal infections and its

complications around the time of childbirth. This forms part of WHO's efforts towards improving the quality of care for leading causes of maternal death especially those clustered around the time of childbirth in the post-MDG era. Specifically it presents evidence-based recommendations on interventions for preventing and treating genital tract infections during labour childbirth or puerperium with the aim of improving outcomes for both mothers and newborns. The primary audience for this guideline is health professionals who are responsible for developing national and local health protocols and policies as well as managers of maternal and child health programmes and policy-makers in all settings. The guideline will also be useful to those directly providing care to pregnant women including obstetricians midwives nurses and general practitioners. The information in this guideline will be useful for developing job aids and tools for both pre- and inservice training of health workers to enhance their delivery of care to

prevent and treat maternal peripartum infections.

Climate Emergency in the Philippines Kristoffer B. Berse 2024-05-18 This book provides a snapshot of the manifestations of the climate emergency in the Philippines from a wide array of disciplines including physical sciences, social sciences, arts and humanities. management, and law. Researchers and faculties at the University of the Philippines contributed to this compilation, where each chapter provides policymakers and the public a clear picture of why climate change must be confronted with a sense of urgency and near-desperation. Divided into three main parts, the first one zeroes in on climate-vulnerable sectors such as water, food and agriculture, health, and coastal communities in the Philippines to introduce readers to the current pressing impacts of the climate emergency. The second part presents case studies of local experiences from the country's three island regions, namely, Luzon, Visayas,

and Mindanao, and it situates the readers in different environments and contexts. The third part features transdisciplinary responses to the climate emergency, including salient challenges in relation to planning, financing, communication, and education. The concluding chapter highlights eight areas for action to tackle the climate emergency. Each chapter comes with an overview and a Summary for Policymakers, which provides clear guidance for action to be taken by both local and national policymakers.

Annual Review of Comparative and International Education 2022 Alexander W. Wiseman 2023-12-14 Reflecting on ten prolific years of publication, both volumes of the 2022 Annual Review together present discussions on education trends and directions, conceptual and methodological developments, research-topractice, area studies and regional developments, and diversification of the field of education.

Healthy Past 100 Steven M. Teagarden DC 2023-08-10 Healthy Past 100 was written explicitly for those longing to be extraordinarily healthy—even past their 100th birthday. This breakthrough book is based on thousands of cutting-edge science articles identifying the causes of optimal health vs sickness and disease. Healthy Past 100 puts a wealth of cutting-edge, science-based healthcare information at your fingertips, empowering you to make the healthiest choices for you and your family. Healthy Past 100 is several books in one, and it also contains a mouthwatering keto cookbook that's exclusively based on the most nourishing ingredients you can consume. This life-changing book is based on the Short List, i.e., a distillation of the core factors involved in being healthy past 100. The Short List includes: The Metabolic Masterplan Diet: the Metabolic Masterplan Diet may be the world's most advanced ketogenic diet. Nothing improves your health as much as following this research-based, anti-inflammatory, gut-healing ketogenic diet. Nutrition and Supplements: providing your cells with all the nutrients they require to function optimally is key to a long, healthy life. Healthy Past 100 shows you exactly which nutrients you need and which ones to supplement with. Metabolism: carbohydrates and sugar damage your metabolism (the process of creating energy in your cells), causing serious health issues. Healthy Past 100 teaches you to heal and optimize your metabolism, and which tests to rely on to know-not guess-that your metabolism is as healthy as can be. Chronic Inflammation: this widespread health issue underlies all diseases, and must be healed to experience optimal health. Healthy Past 100 rids vou of chronic inflammation—now and forever—paving the way to lasting health. Gut Health: most humans deal with significant gut issues. Fortunately, Healthy Past 100's innovative gut healing method leads to lifelong optimized gut health. Psychology: psychology is

how you think, feel, act, behave and respond to life's circumstances. Healthy Past 100 provides the tools to heal and optimize your psychology, which is foundational to a healthy, fulfilling life. Thyroid Physiology: inefficient thyroid physiology impairs your body and mind, zaps your energy and causes many diseases. Healthy Past 100 explains how thyroid physiology works, how to heal it, and the tests determining if it's in tip-top shape. Exercise: crucial to your health and well-being, exercise must be performed regularly. Healthy Past 100 teaches you which exercises help you become healthy past 100. Detoxification: humans are routinely exposed to dangerous heavy metal toxins. Healthy Past 100 shows you how to rid these harmful metals from your body and minimize your exposure to them in the future. Oxidative Stress: oxidative stress is a primary cause of aging, sickness, disease and death. It has many causes, including carbohydrates, sugar, poor nutrition and impaired gut health. Healthy Past 100 helps you

optimize oxidative stress where it matters most: within the mitochondria in your cells. Spiritual/Religious Life: extraordinary health stems from optimal physical, psychological and spiritual well-being. It's just as important to focus on your spiritual fitness as it is to heal your physical body, and Healthy Past 100 helps you do both. This pioneering book has been written to help you experience extraordinary health past your 100th birthday. If you're ready to be healthy past 100, this is the book you've been waiting for!

Community Paralegals and the Pursuit of Justice Vivek Maru 2020-11-26 The United Nations estimates that four billion people worldwide live outside the protection of the law. These people can be driven from their land, intimidated by violence, and excluded from society. This book is about community paralegals - sometimes called barefoot lawyers - who demystify law and empower people to advocate for themselves. These paralegals date back to

1950s South Africa and are active today in many countries, but their role has largely been ignored by researchers. Community Paralegals and the Pursuit of Justice is the first book on the subject. Focusing on paralegal movements in six countries, Vivek Maru, Varun Gauri, and their coauthors have collected rich, vivid stories of paralegals helping people to take on injustice, from domestic violence to unlawful mining to denial of wages. From these stories emerges evidence of what works and how. The insights in the book will be of immense value in the global fight for universal justice. This title is also available as Open Access.

GM maize in Ethiopia: An ex ante economic assessment of TELA, a drought tolerant and insect resistant maize Yirga, Chilot 2020-05-07 Ethiopian economy has grown at an average rate that surpasses that of almost any other economy in the region over the last two decades. At the center of this development is the high priority placed on accelerating agricultural growth and

achieving food security and poverty alleviation. Over the years, maize has become a main food security crop, widely produced and consumed by smallholder farmers, second only to teff in terms of area. Despite the sustained growth of maize production over the years, its yields continue to be lower than the world's average. Of the many abiotic and biotic constraints that maize faces. insect attacks and droughts are two critical ones. The genetically modified TELA maize can help address these constraints. This paper estimates the economic benefits of adopting this new technology and the opportunity cost that Ethiopia will incur if its adoption is delayed. The analysis is conducted using an economic surplus partial equilibrium model run with the newly developed DREAMpy software, data drawn from the Ethiopia Socioeconomic Survey, Wave 3 2015-2016, econometric estimations using these survey data, and other local data and sources. The estimations show that if the drought tolerant and insect resistant TELA maize is planted in

2023 the net present-value of benefits for producers and consumers would be around \$850 million. Producers from the mid-altitude maize zone will be the main beneficiaries, given the targeted area of TELA maize. Consumers from all areas will benefit from the projected reduction in price. If the adoption of this new technology is delayed by 5 years, the estimated net present value of benefits will fall by 30 percent. These costs underscore the importance of having a regulatory system that is efficient, predictable, and transparent and ensures that the projected economic benefits are realized.

Research Efforts, Challenges and Opportunities in Mitigating Aflatoxins in Food and Agricultural Crops and Its Global Health Impacts Mehdi Razzaghi-Abyaneh 2022-12-01

Dietary assessment Food and Agriculture Organization of the United Nations 2018-06-11 FAO provides countries with technical support to conduct nutrition assessments, in particular to build the evidence base required for countries to achieve commitments made at the Second International Conference on Nutrition (ICN2) and under the 2016-2025 UN Decade of Action on Nutrition. Such concrete evidence can only derive from precise and valid measures of what people eat and drink. There is a wide range of dietary assessment methods available to measure food and nutrient intakes (expressed as energy insufficiency, diet quality and food patterns etc.) in diet and nutrition surveys, in impact surveys, and in monitoring and evaluation. Differenct indicators can be selected according to a study's objectives, sample population, costs and required precision. In low capacity settings, a number of other issues should be considered (e.g. availability of food composition tables, cultural and community specific issues, such as intra-household distribution of foods and eating from shared plates, etc.). This manual aims to signpost for the users the best way to measure food and

nutrient intakes and to enhance their understanding of the key features, strengths and limitations of various methods. It also highlights a number of common methodological considerations involved in the selection process. Target audience comprises of individuals (policymakers, programme managers, educators, health professionals including dietitians and nutritionists, field workers and researchers) involved in national surveys, programme planning and monitoring and evaluation in low capacity settings, as well as those in charge of knowledge brokering for policy-making. Sustainable Agriculture and Food Security Walter Leal Filho 2022-07-28 This book describes initiatives and concrete examples on sustainable food production worldwide. In the current world scenario, where nations all over the world are struggling to accomplish the United Nations Sustainable Development Goals and to ensure sustainable patterns for all, this book provides a contribution towards a more

comprehensive and interdisciplinary understanding of the cross-cutting issues related to Sustainable Agriculture and Food Security. This interdisciplinary book supports the efforts to engage a commitment from all fields of science, to work together to provide knowledge that could help to address SDG2 (No hunger) and lead to the promotion of quality of life, by means of a more sustainable food production, and improved food security. This book is expected to fill the gap of publications in this field. It gives a special emphasis to a state-ofthe-art descriptions of approaches, methods, initiatives and projects from universities, stakeholders, organizations and civil society across the world, regarding cross-cutting issues in sustainable food production. It includes examples of policies and practices case studies, examples of projects, institutional policies, innovative methods and tools and research outputs, which highlight the interdependence between sustainable agriculture and food

security issues. It is expected that the "Sustainable Agriculture and Food Security" will make the many benefits of sustainable food production clearer and, inter alia, lead to an increase in the emphasis provided to this central theme.

Technology and Oligopoly Capitalism Luis Suarez-Villa 2023-04-14 Technology and Oligopoly Capitalism is a major contribution to our understanding of how technology oligopolies are shaping America's social, economic, and political reality. Technology oligopolies are the most powerful socioeconomic entities in America. From cradle to grave, the decisions they make affect the most intimate aspects of our lives, how we work, what we eat, our health, how we communicate, what we know and believe, whom we elect, and how we relate to one another and to nature. Their power over markets, trade, regulation, and most every aspect of our governance is more intrusive and farther-reaching than ever. They benefit from

tax breaks, government guarantees, and bailouts that we must pay for and have no control over. Their accumulation of capital creates immense wealth for a minuscule elite, deepening disparities while politics and governance become ever more subservient to their power. They determine our skills and transform employment through the tools and services they create, as no other organizations can. They produce a vast array of goods and services with labor, marketing, and research that are more intrusively controlled than ever, as workplace rights and job security are curtailed or disappear. Our consumption of their products—and their capacity to promote wants—is deep and far reaching, while the waste they generate raises concerns about the survival of life on our planet. And their links to geopolitics and the martial domain are stronger than ever, as they influence how warfare is waged and who will be vanguished. Technology and Oligopoly Capitalism's critical,

multidisciplinary perspective provides a systemic vision of how oligopolistic power shapes these forces and phenomena. An inclusive approach spans the spectrum of technology oligopolies and the ways in which they deploy their power. Numerous, previously unpublished ideas expand the repertory of established work on the topics covered, advancing explanatory quality—to elucidate how and why technology oligopolies operate as they do, the dysfunctions that accompany their power, and their effects on society and nature. This book has no peers in the literature, in its scope, the unprecedented amount and diversity of documentation, the breadth of concepts, and the vast number of examples it provides. Its premises deserve to be taken into account by every student, researcher, policymaker, and author interested in the socioeconomic and political dimensions of technology in America. Meeting the nutrition and water targets of the Sustainable Development Goals Ringler,

C. 2018-12-11

Biosafety in Microbiological and Biomedical Laboratories Centers for Disease Control (U.S.)
1988

Soil and Fertilizers Rattan Lal 2020-05-06 Soil and Fertilizers: Managing the Environmental Footprint presents strategies to improve soil health by reducing the rate of fertilizer input while maintaining high agronomic yields. It is estimated that fertilizer use supported nearly half of global births in 2008. In a context of potential food insecurity exacerbated by population growth and climate change, the importance of fertilizers in sustaining the agronomic production is clear. However, excessive use of chemical fertilizers poses serious risks both to the environment and to human health. Highlighting a tenfold increase in global fertilizer consumption between 2002 and 2016, the book explains the effects on the quality of soil, water, air and biota from overuse of chemical fertilizers. Written by an

interdisciplinary author team, this book presents methods for enhancing the efficiency of fertilizer use and outlines agricultural practices that can reduce the environmental footprint. Features: Includes a thorough literature review on the agronomic and environmental impact of fertilizer, from degradation of ecosystems to the eutrophication of drinking water Devotes specific chapters to enhancing the use efficiency and effectiveness of the fertilizers through improved formulations, time and mode of application, and the use of precision farming technology Reveals geographic variation in fertilizer consumption volume by presenting case studies for specific countries and regions, including India and Africa Discusses the pros and cons of organic vs. chemical fertilizers, innovative technologies including nuclear energy, and the U.N.'s Sustainable Development Goals Part of the Advances in Soil Sciences series, this solutions-focused volume will appeal to soil scientists, environmental scientists and

agricultural engineers.

Advances in Breeding for Wheat Disease Resistance Peter Bulli 2022-11-03 The State of Food Security and Nutrition in the World 2020 Food and Agriculture Organization of the United Nations 2020-07-01 Updates for many countries have made it possible to estimate hunger in the world with greater accuracy this year. In particular, newly accessible data enabled the revision of the entire series of undernourishment estimates for China back to 2000, resulting in a substantial downward shift of the series of the number of undernourished in the world. Nevertheless, the revision confirms the trend reported in past editions: the number of people affected by hunger globally has been slowly on the rise since 2014. The report also shows that the burden of malnutrition in all its forms continues to be a challenge. There has been some progress for child stunting, low birthweight and exclusive breastfeeding, but at a pace that is still too slow.

Childhood overweight is not improving and adult obesity is on the rise in all regions. The report complements the usual assessment of food security and nutrition with projections of what the world may look like in 2030, if trends of the last decade continue. Projections show that the world is not on track to achieve Zero Hunger by 2030 and, despite some progress, most indicators are also not on track to meet global nutrition targets. The food security and nutritional status of the most vulnerable population groups is likely to deteriorate further due to the health and socio economic impacts of the COVID-19 pandemic. The report puts a spotlight on diet quality as a critical link between food security and nutrition. Meeting SDG 2 targets will only be possible if people have enough food to eat and if what they are eating is nutritious and affordable. The report also introduces new analysis of the cost and affordability of healthy diets around the world, by region and in different development contexts.

It presents valuations of the health and climatechange costs associated with current food consumption patterns, as well as the potential cost savings if food consumption patterns were to shift towards healthy diets that include sustainability considerations. The report then concludes with a discussion of the policies and strategies to transform food systems to ensure affordable healthy diets, as part of the required efforts to end both hunger and all forms of malnutrition

Disease Control Priorities, Third Edition (Volume 2) Robert Black 2016-04-11 The evaluation of reproductive, maternal, newborn, and child health (RMNCH) by the Disease Control Priorities, Third Edition (DCP3) focuses on maternal conditions, childhood illness, and malnutrition. Specifically, the chapters address acute illness and undernutrition in children, principally under age 5. It also covers maternal mortality, morbidity, stillbirth, and influences to pregnancy and pre-pregnancy. Volume 3 focuses

on developments since the publication of DCP2 and will also include the transition to older childhood, in particular, the overlap and commonality with the child development volume. The DCP3 evaluation of these conditions produced three key findings: 1. There is significant difficulty in measuring the burden of key conditions such as unintended pregnancy, unsafe abortion, nonsexually transmitted infections, infertility, and violence against women. 2. Investments in the continuum of care can have significant returns for improved and equitable access, health, poverty, and health systems. 3. There is a large difference in how RMNCH conditions affect different income groups; investments in RMNCH can lessen the disparity in terms of both health and financial risk.

State of University Education in Kenya Eusebius J. Mukhwana 2016 *Handbook of Universities* 2006 **Psychiatric Contours** Nancy Rose Hunt

2024-03-08 Psychiatric Contours investigates new histories of psychiatry, derangement, and agitated subjectivities in colonial and decolonizing Africa. The volume lets the multivalent term madness broaden perception, well beyond the psychiatric. Many chapters detect the mad or the psychiatric in unhinged persons, frantic collectives, and distressing situations. Others investigate individuals suffering from miscategorization. A key Foucauldian word, vivacity, illuminates how madness aligns with pathology, creativity, turbulence, and psychopolitics. The archives, patient-authored or not, speak to furies and fantasies inside asylums, colonial institutions, decolonizing missions, and slave ships. The frayed edges of politicized deliria open up the senses and optics of psychiatry's history in Africa far beyond clinical spaces and classification. The volume also proposes fresh concepts, notably the vernacular, to suggest how to work with emic clues in a granular fashion

and telescope the psychiatric within histories of madness. With chapters stretching across much of ex-British and ex-French colonial Africa. Psychiatric Contours attends to the words. autobiographies, and hallucinations of the stigmatized and afflicted as well as of the powerful. Expatriate psychiatrists with cameras, prying authorities, fearful missionaries, and colonial anthropologists enter these readings beside patients, asylums, and boarding schools via research on possession "hysteria" and schizophrenia. In brief, this book demonstrates novel ways of writing not only medical history but all subaltern and global histories. Contributors. Hubertus Büschel, Raphaël Gallien, Matthew M. Heaton, Richard Hölzl. Nancy Rose Hunt, Richard C. Keller, Sloan Mahone, Nana Osei Ouarshie, Jonathan Sadowsky, Romain Tiquet Science Research and Education in Africa

Alain L. Fymat 2017-03-07 For various economic and political reasons, many African countries lag

behind the rest of the industrialised world in scientific and medical research and development. However, the presence of intellectual islands scattered across the continent gives hope that this is only a transient situation on the cusp of undergoing a profound and beneficial change. For this reason, the Society for the Advancement of Science in Africa was established to catalyse and contribute to this needed evolution. Its mission is to contribute to Africa's economic advancement and sustainability through science research, education and innovation. This book provides a selection of papers from the Advancement of Science in Africa's third annual conference. The conference was held under the overarching theme of 'science research and education in Africa', with several important sub-themes, including but not limited to: improving health research and disease surveillance education: epidemic diseases with high mortality; promoting women's interest in science careers;

fostering youth development with science education. The collection illustrates how although the chapter contributors come from various countries and universities, representing their own academic research, they all share a common interest in advancing science research and education in Africa.

Biochar for Environmental Management Johannes Lehmann 2012-05-16 Biochar is the carbon-rich product when biomass (such as wood, manure or crop residues) is heated in a closed container with little or no available air. It can be used to improve agriculture and the environment in several ways, and its stability in soil and superior nutrient-retention properties make it an ideal soil amendment to increase crop yields. In addition to this, biochar sequestration, in combination with sustainable biomass. production, can be carbon-negative and therefore used to actively remove carbon dioxide from the atmosphere, with major implications for mitigation of climate change. Biochar production

can also be combined with bioenergy production through the use of the gases that are given off in the pyrolysis process. This book is the first to synthesize the expanding research literature on this topic. The book's interdisciplinary approach, which covers engineering, environmental sciences, agricultural sciences, economics and policy, is a vital tool at this stage of biochar technology development. This comprehensive overview of current knowledge will be of interest to advanced students, researchers and professionals in a wide range of disciplines. **Smart Farming Technologies to Attain Food** and Nutrition Security P. Parvatha Reddy 2024-02-06 The concept of Rainbow Revolution is an integrated development of crop cultivation, horticulture, forestry, fishery, poultry, animal husbandry, and food processing industry. The concept of Smart Farming Technologies in

agriculture is a step towards sustainability. India

has already achieved resilience in agriculture,

including the horticultural sector, through

effective agricultural technology generation and is now on the threshold of a "rainbow revolution" that will ensure both household nutrition security and prosperity for its people. This book will be of immense value to the scientific community involved in teaching, research and extension activities related to strategies for achieving Rainbow Revolution for enhancing farmers' income, food, and nutrition security. The book can also serve as a very useful reference for policymakers and practicing farmers.

Illuminating Hidden Harvests Food and Agriculture Organization of the United Nations 2023-03-15 Illuminating Hidden Harvests: the contributions of small-scale fisheries to sustainable development (hereinafter IHH) is a global study uncovering the contributions and impacts of small-scale fisheries through a multidisciplinary approach to data collection and analysis. The study provides information that quantifies and improves understanding of the

crucial role of small-scale fisheries in the areas. of food security and nutrition, sustainable livelihoods, poverty eradication and healthy ecosystems. It also examines gender equality as well as the nature and scope of governance in small-scale fisheries. The IHH study was carried out in support of the implementation of the Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication (SSF Guidelines), themselves developed in recognition of the plight of small-scale fishers, fishworkers and associated communities and released as a contribution to the International Year of Artisanal Fisheries and Aquaculture 2022. The purpose of this report is to contribute to a more holistic understanding of what small-scale fisheries are, their importance, and why they are essential to efforts to achieve the Sustainable Development Goals (SDGs). By using this knowledge wisely within a human rights-based approach in line with the SSF Guidelines, and by

empowering small-scale fishers and fishworkers, a more inclusive, equitable, sustainable and resilient small-scale scale fisheries subsector can be achieved. Realizing this goal would benefit hundreds of thousands in fishing communities and society at large. With this in mind, the IHH report is aimed at all those with a stake or an interest in the small-scale fisheries subsector, in particular decision-makers who are concerned with fisheries, poverty eradication, food security and nutrition, and sustainable development more generally. It is also addressed to small-scale fisheries actors themselves and those who support them.

International Conference on Computing and Information Technologies George Antoniou 2001 This book is a balanced presentation of the latest techniques, algorithms and applications in computer science and engineering. The papers, written by eminent researchers in their fields, provide a vehicle for new research and development. The proceedings have been

selected for coverage in: ? Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings)

Killing, Capture, Trade and Ape Conservation Arcus Foundation 2021-04-29 An objective analysis of relevant issues and case studies to further the ape conservation agenda around killing, capture and trade.

Kenya Engineer 2000

Supporting Entrepreneurship and Innovation Janet Crum 2019-04-29 Libraries have recently begun doing more to support entrepreneurship and innovation within their communities. This volume explores how this has come about, looking at libraries from across North America, Europe and Africa, and helps position readers to better understand what is happening, and how this can be brought to further institutions.

Advances in Phytochemistry, Textile and Renewable Energy Research for Industrial Growth Charles Nzila 2022-04-06 The

International Conference on Phytochemistry,

Textile, & Renewable Energy Technologies for Sustainable Development (ICPTRE 2020) was hosted by the World bank funded Africa Centre of Excellence in Phytochemicals, Textile and Renewable Energy (ACEII-PTRE) based at Moi University in conjunction with Donghua University, China and the Sino-Africa International Symposium on Textiles and Apparel (SAISTA). The theme of the conference was Advancing Science, Technology and Innovation for Industrial Growth. The research relationships between universities and industry have enabled the two entities to flourish and, in the past, have been credited for accelerated sustainable development and uplifting of millions out poverty. ICPTRE 2020 therefore provided a platform for academic researchers drawn from across the world to meet key industry professionals and actively share knowledge while advancing the role of research in industrial development, particularly, in the developing nations. The conference also provided exhibitors

with an opportunity to interact with professionals and showcase their business, products, technologies and equipment. During the course of the conference, industrial exhibitions, research papers and presentations in the fields of phytochemistry, textiles, renewable energy, industry, science, technology, innovations and much more were presented. Research Anthology on Preparing School Administrators to Lead Quality Education **Programs** Management Association, Information Resources 2020-07-24 The delivery of quality education to students relies heavily on the actions of an institution's administrative staff. Effective leadership strategies allow for the continued progress of modern educational initiatives. It is crucial to investigate how effective administrators lead their organizations in challenging and difficult times and promote the accomplishments of their organization. Research Anthology on Preparing School Administrators to Lead Quality Education

Programs is a vital reference source that offers theoretical and pedagogical research concerning the management of educational systems on both the national and international scale. It also explores academic administration as well as administrative effectiveness in achieving organizational goals. Highlighting a range of topics such as strategic planning, human resources, and school culture, this multi-volume book is ideally designed for educators, administrators, principals, superintendents, board members, researchers, academicians, policymakers, and students. Kenya National Assembly Official Record (Hansard) 2012-02-15 The official records of the proceedings of the Legislative Council of the Colony and Protectorate of Kenya, the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya. **New Challenges and Future Perspectives in** Nutrition and Sustainable Diets in Africa Hettie Carina Schönfeldt 2024-05-06 Africa is

confronted with the triple burden of malnutrition; it is also faced with the triple challenges of poverty, inequality and unemployment. In many African countries, large proportions of the population rely on agriculture not only for their food - but also for their livelihoods. A transformed agricultural and food system is thus a necessary condition for addressing this double-triple challenge. Additionally, post harvest and food waste and losses reduce the availability of sufficient quantities of safe, edible and preferable foods. At least one third of food produced at farm level is lost due to inappropriate storage, infrastructure and agro-processing technologies in developing countries; and one third of food purchased is wasted at household and retail level.

Advancing Africa's Sustainable Development Alain L. Fymat 2018-11-14 While many African countries lag behind the rest of the industrialised world in scientific and medical research and development, the situation is progressively improving. This is why the Society for the Advancement of Science in Africa was established, to contribute to economic advancement and sustainability through science research, education and innovation. This book provides a selection of papers from the Advancement of Science in Africa's fourth annual conference. The conference was held under the overarching theme of 'science, technology and innovation in Africa', with several important sub-themes, including, but not limited to, improving health research and disease surveillance education; collaborating in research responding to epidemic diseases with high mortality in Africa; and promoting women's interest in science careers. The collection illustrates how, although the chapter contributors come from various countries and universities, representing their own academic research, they all share a common interest in advancing science, technology and innovation in

Africa.

Regional Review on Status and Trends in **Aquaculture Development in Sub-Saharan** Africa - 2015 Food and Agriculture Organization of the United Nations 2017 The present regional review and synthesis for sub-Saharan Africa (SSA) provides an overview of major issues and trends in the aquaculture sector between 2004 and 2014 with emphasis on outstanding issues over the last five years. The regional review reflects development in 41 countries in SSA for which production was reported to FAO in 2014. The production volume and value data have been derived from the latest. FAO global aquaculture dataset 1950-2014 (FishStat).

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