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Genetically Modified Democracy - Aniket Aga 2021-11-23

How the debate over genetically modified crops in India is transforming science and politics Genetically modified or transgenic crops are controversial across the world. Advocates see such crops as crucial to feeding the world's growing population; critics oppose them for pushing farmers deeper into ecological and economic distress, and for shoring up the power of agribusinesses. India leads the world in terms of the intensity of democratic engagement with transgenic crops. Anthropologist Aniket Aga excavates the genealogy of conflicts of interest and disputes over truth that animate the ongoing debate in India around the commercial release of transgenic food crops. The debate may well transform agriculture and food irreversibly in a country already witness to widespread agrarian distress, and over 300,000 suicides by farmers in the last two decades. Aga illustrates how state, science, and agrarian capitalism interact in novel ways to transform how democracy is lived and understood, and sheds light on the dynamics of technological change in populous, unequal polities.

Computer and Computing Technologies in Agriculture VI - Daoliang Li 2013-02-26

The two-volume set IFIP AICT 392 and 393 constitutes the refereed post-conference proceedings of the 6th IFIP TC 5, SIG 5.1 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2012, held in Zhangjiajie, China, in October 2012. The 108 revised papers presented were carefully selected from numerous submissions. They cover a wide range of interesting theories and applications of information technology in agriculture, including Internet of things and cloud computing; simulation models and decision-support systems for agricultural production; smart sensor, monitoring, and control technology; traceability and e-commerce technology; computer vision, computer graphics, and virtual reality; the application of information and communication technology in agriculture; and universal information service technology and service systems development in rural areas. The 53 papers included in the first volume focus on decision support systems, intelligent systems, and artificial intelligence applications.

The Mark Lane Express, Agricultural Journal &c - 1898

Handbook of Hygiene Control in the Food Industry - H. L. M. Lelieveld 2016-06-10

Handbook of Hygiene Control in the Food Industry, Second Edition, continues to be an authoritative reference for anyone who needs hands-on practical information to improve best practices in food safety and quality. The book is written by leaders in the field who understand the complex issues of control surrounding food industry design, operations, and processes, contamination management methods, route analysis processing, allergenic residues, pest management, and more. Professionals and students will find a comprehensive account of risk analysis and management solutions they can use to minimize risks and hazards plus tactics and best practices for creating a safe food supply, farm to fork. Presents the latest research and development in the field of hygiene, offering a broad range of the microbiological risks associated with food processing Provides practical hygiene related solutions in food facilities to minimize foodborne pathogens and decrease the occurrence of foodborne disease Includes the latest information on biofilm formation and detection for prevention and control of pathogens as well as pathogen resistance

Transforming the Workforce for Children Birth Through Age 8 - National Research Council 2015-07-23

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. *Transforming the Workforce for Children Birth Through Age 8* explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. *Transforming the Workforce for Children Birth Through Age 8* offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

U.S. Agriculture and Forestry Greenhouse Gas Inventory: 1990-2008 - William Hohenstein 2011-10-01

In 2008, agricultural greenhouse gas sources accounted for about 6% of total U.S. greenhouse gas emissions. The U.S. Agriculture and Forestry Greenhouse Gas Inventory: 1990-2008 was developed to provide a comprehensive assessment of the contribution of U.S. agriculture and forestry to greenhouse gas emissions and carbon sequestration. It provides extensive, in-depth emissions and sinks estimates for livestock, cropland, and forests, as well as energy consumption in livestock and cropland agriculture. Estimates are provided at State, regional, and national scales, categorized by land ownership and management practices where possible. Charts and tables. This is a print on demand edition of an important, hard-to-find publication.

Edible Insects - Arnold van Huis 2013

Edible insects have always been a part of human diets, but in some societies there remains a degree of disdain and disgust for their consumption. Insects offer a significant opportunity to merge traditional knowledge and modern science to improve human food security worldwide. This publication describes the contribution of insects to food security and examines future prospects for raising insects at a commercial scale to improve food and feed production, diversify diets, and support livelihoods in both developing and

developed countries. Edible insects are a promising alternative to the conventional production of meat, either for direct human consumption or for indirect use as feedstock. This publication will boost awareness of the many valuable roles that insects play in sustaining nature and human life, and it will stimulate debate on the expansion of the use of insects as food and feed.

Intelligent Systems and Decision Making for Risk Analysis and Crisis Response - Chongfu Huang
2013-07-25

In this present internet age, risk analysis and crisis response based on information will make up a digital world full of possibilities and improvements to people's daily life and capabilities. These services will be supported by more intelligent systems and more effective decisionmaking. This book contains all the papers presented at the 4th Inter

Induced plant responses to microbes and insects - Corné M. J. Pieterse 2014-04-14

Plants are members of complex communities and interact both with antagonists and beneficial organisms. An important question in plant defense-signaling research is how plants integrate signals induced by pathogens, insect herbivores and beneficial microbes into the most appropriate adaptive response. Molecular and genomic tools are now being used to uncover the complexity of the induced defense signaling networks that have evolved during the arms races between plants and the other organisms with which they intimately interact. To understand the functioning of the complex defense signaling network in nature, molecular biologists and ecologists have joined forces to place molecular mechanisms of induced plant defenses in an ecological perspective. In this Research Topic, we aim to provide an on-line, open-access snapshot of the current state of the art of the field of induced plant responses to microbes and insects, with a special focus on the translation of molecular mechanisms to ecology and vice versa.

Strategies for Mitigating the Environmental Impacts of Pig and Poultry Production - Ines Andretta
2022-09-28

Agriculture at Purdue University - Winthrop Ellsworth Stone 1905

Manuka - Cliff Van Eaton 2014-10-09

Not so long ago, in a small island nation in the South Pacific, beekeepers produced a most peculiar honey. It was much darker than the clover honey everyone put on their toast in the morning, and it tasted very different. In fact, the honey was a problem: it was hard to get out of the combs, and even harder for beekeepers to sell. Today that honey, manuka from New Zealand, is known around the world. It fetches high prices, and beekeepers do everything in their power to produce as much of it as possible. Wound dressings containing manuka honey are used in leading hospitals, and it has saved the lives of patients infected with disease-causing bacteria that are resistant to standard antibiotic drugs. In so doing it has forced the medical profession to rethink its position on the therapeutic properties of natural products. This book chronicles the remarkable 'rags-to-riches' story of manuka honey, as seen through the eyes of a New Zealand beekeeping specialist who watched it unfold from the very beginning. It's a great tale of science, in which an inquisitive university lecturer found something totally unexpected in a product everyone had written off. It's also an entertaining account of the way that seemingly simple discovery caught the international media's attention, helping enterprising New Zealanders to develop manuka honey-based products and take them all around the globe. But above all else it's a story of hope for the future, sounding a note of optimism in a world that for good reason feels saddened and sometimes even afraid about the future of the special relationship we humans have always had with those marvellous creatures, the honey bees.

Physiological and Molecular Aspects of Plant Rootstock-Scion Interactions - Rosario Paolo Mauro
2022-02-11

AI-Based Services for Smart Cities and Urban Infrastructure - Lyu, Kangjuan 2020-09-04

Cities are the next frontier for artificial intelligence to permeate. As smart urban environments become possible, probable, and even preferred, artificial intelligence offers the chance for even further advancement through infrastructure and industry boosting. Opportunity overflows, but without thorough

research to guide a complicated development and implementation process, urban environments can become disorganized and outright dangerous for citizens. AI-Based Services for Smart Cities and Urban Infrastructure is a collection of innovative research that explores artificial intelligence (AI) applications in urban planning. In addition, the book looks at how the internet of things and AI can work together to enable a real smart city and discusses state-of-the-art techniques in urban infrastructure design, construction, operation, maintenance, and management. While highlighting a broad range of topics including construction management, public transportation, and smart agriculture, this book is ideally designed for engineers, entrepreneurs, urban planners, architects, policymakers, researchers, academicians, and students.

Foreign Direct Investment in Agriculture - Jan Schüpbach 2015-10-07

Foreign direct investment in agriculture and land has increased substantially since the 2007–2008 food price crisis. However, there is a severe lack of quantitative evidence on its economic impact. Therefore, the primary goal of this study was to collect and analyze empirical evidence, in order to better understand the potential benefits and pitfalls of such investments and related processes of agricultural commercialization. In particular, the study tests the effect of two strategies for including smallholder farmers into modern food supply chains: 1. Outgrower schemes, i.e. a type of contract farming whereby small-scale farmers produce crops for large-scale farming enterprises 2. Wage employment on large-scale estates The central part of the study looks at one specific investment project in the Zambian sugar cane sector. This sectoral focus was supplemented by a broader, cross sectoral analysis of a large, nationally representative panel survey. Overall, the evidence suggests that large-scale investments by foreign as well as domestic companies, and especially the model of cooperation with smallholder farmers in outgrower schemes, can indeed have positive and significant effects on the income and wealth of rural households.

Proceedings of the 5th International Asia Conference on Industrial Engineering and Management Innovation (IEMI2014) - Ershi Qi 2015-01-19

The 5th International Asia Conference on Industrial Engineering and Management Innovation is sponsored by the Chinese Industrial Engineering Institution and organized by Xi'an Jiaotong University. The conference aims to share and disseminate information on the most recent and relevant researches, theories and practices in industrial and system engineering to promote their development and application in university and enterprises.

Industrial Biorefineries and White Biotechnology - Ashok Pandey 2015-05-08

Industrial Biorefineries and White Biotechnology provides a comprehensive look at the increasing focus on developing the processes and technologies needed for the conversion of biomass to liquid and gaseous fuels and chemicals, in particular, the development of low-cost technologies. During the last 3-4 years, there have been scientific and technological developments in the area; this book represents the most updated information and technological perspective on the topic. Provides information on the most advanced and innovative pretreatment processes and technologies for biomass Covers information on lignocellulosic and algal biomass to work on the principles of biorefinery Provides information on integration of processes for the pretreatment of biomass Designed as a textbook for both graduate students and researchers

Safety and Reliability – Safe Societies in a Changing World - Stein Haugen 2018-06-15

Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas,

nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

The impact of disasters and crises on agriculture and food security: 2021 - Food and Agriculture Organization of the United Nations 2021-03-17

On top of a decade of exacerbated disaster loss, exceptional global heat, retreating ice and rising sea levels, humanity and our food security face a range of new and unprecedented hazards, such as megafires, extreme weather events, desert locust swarms of magnitudes previously unseen, and the COVID-19 pandemic. Agriculture underpins the livelihoods of over 2.5 billion people – most of them in low-income developing countries – and remains a key driver of development. At no other point in history has agriculture been faced with such an array of familiar and unfamiliar risks, interacting in a hyperconnected world and a precipitously changing landscape. And agriculture continues to absorb a disproportionate share of the damage and loss wrought by disasters. Their growing frequency and intensity, along with the systemic nature of risk, are upending people's lives, devastating livelihoods, and jeopardizing our entire food system. This report makes a powerful case for investing in resilience and disaster risk reduction – especially data gathering and analysis for evidence informed action – to ensure agriculture's crucial role in achieving the future we want.

Lab Reports and Projects in Sport and Exercise Science - Mike Price 2021-12-31

Most science degrees will have a practical or laboratory-based component which will require some sort of final report, whether this be a conventional laboratory report or a final-year dissertation. All of these formats require students to be able to analyse their data in an appropriate way and subsequently convey their key thoughts and information to a third party. Therefore, writing laboratory reports is an essential part any science degree. This new revised edition sees the expansion of statistical examples including initial data checks and assumptions, increased awareness of critical appraisal tools and resources, project planning and a range of 'Challenge yourself' activities to supplement understanding and provides a comprehensive overview of what should be contained within each section of a scientific report, and clearly explains how it should be presented. Written in a friendly and engaging style, it guides the reader through abstracts, literature reviews, methodology, reporting discussions and referencing and contains a wealth of examples and practical advice on how to improve and refine your own writing. From writing a first lab report to preparing a final-year dissertation or postgraduate thesis, sports and exercise science students at all levels will find this book a valuable resource in developing both skill and confidence in scientific communication. Key features include: The layout of the book is designed to reflect that of a typical scientific report to help students plan their own projects. Each chapter includes numerous examples, exercises and activities to engage students and develop skills in each aspect of report writing. The book includes discussion of critical appraisal techniques to help students refine their research questions. All data sets and illustrations used are drawn from the key disciplines in sport and exercise science, including physiology, psychology and biomechanics.

Good beekeeping practices for sustainable apiculture - Food and Agriculture Organization of the United Nations 2021-09-21

Bees provide a critical link in the maintenance of ecosystems, pollination. They play a major role in maintaining biodiversity, ensuring the survival of many plants, enhancing forest regeneration, providing sustainability and adaptation to climate change and improving the quality and quantity of agricultural production systems. In fact, close to 75 percent of the world's crops that produce fruits and seeds for human consumption depend, at least in part, on pollinators for sustained production, yield and quality. Beekeeping, also called apiculture, refers to all activities concerned with the practical management of social bee species. These guidelines aim to provide useful information and suggestions for a sustainable management of bees around the world, which can then be applied to project development and implementation.

Environmental Protection and Resources Exploitation - Zi Li Liu 2013-09-10

Collection of selected, peer reviewed papers from the 2013 International Conference on Advances in Energy and Environmental Science (ICAEEES 2013), July 30-31, 2013, Guangzhou, China. The 551 papers are grouped as follows: Chapter 1: Environmental Analysis and Monitoring; Chapter 2: Environmental Planning and Assessment; Chapter 3: Environmental Chemistry and Biology, Environmental Materials; Chapter 4: Environmental Safety and Health; Chapter 5: Environmental Protection, Plant Protection and Low Carbon; Chapter 6: Waste Disposal and Recycling; Chapter 7: Technologies of Environmental Restoration; Chapter 8: Hydrology, Water Resources Engineering, and Soil and Water Conservation; Chapter 9: Land Resources Environment and Urban Planning; Chapter 10: Geographic Information and Remote Sensing Science; Chapter 11: Storage and Processing of Agricultural Products, and Biomedical Technology; Chapter 12: Geology, Mineral Prospecting and Exploration; Chapter 13: Mining Engineering and Mineral Process Engineering; Chapter 14: Development of Oil and Gas; Chapter 15: Materials and Processing Technologies; Chapter 16: Engineering Management and Engineering Education.

South African National Bibliography - 1993

Includes publications received in terms of Copyright Act no. 9 of 1916.

Food Processing - Stephanie Clark 2014-04-03

Food Processing: Principles and Applications second edition is the fully revised new edition of this best-selling food technology title. Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens, environmental concerns, shelf life, quality and safety, as well as the dietary needs and demands of humans. In addition to covering food processing principles that have long been essential to food quality and safety, this edition of Food Processing: Principles and Applications, unlike the former edition, covers microbial/enzyme inactivation kinetics, alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry. The book is divided into two sections, the first focusing on principles of food processing and handling, and the second on processing technologies and applications. As a hands-on guide to the essential processing principles and their applications, covering the theoretical and applied aspects of food processing in one accessible volume, this book is a valuable tool for food industry professionals across all manufacturing sectors, and serves as a relevant primary or supplemental text for students of food science.

Anatomy & Physiology - 2016

Illinois Education - 1915

World Development Report 2013 - World Bank 2012-10-15

Jobs provide higher earnings and better benefits as countries grow, but they are also a driver of development. Poverty falls as people work their way out of hardship and as jobs empowering women lead to greater investments in children. Efficiency increases as workers get better at what they do, as more productive jobs appear, and less productive ones disappear. Societies flourish as jobs bring together people from different ethnic and social backgrounds and provide alternatives to conflict. Jobs are thus more than a byproduct of economic growth. They are transformational—they are what we earn, what we do, and even who we are. High unemployment and unmet job expectations among youth are the most immediate concerns. But in many developing countries, where farming and self-employment are prevalent and safety nets are modest at best, unemployment rates can be low. In these countries, growth is seldom jobless. Most of their poor work long hours but simply cannot make ends meet. And the violation of basic rights is not uncommon. Therefore, the number of jobs is not all that matters: jobs with high development payoffs are needed. Confronted with these challenges, policy makers ask difficult questions. Should countries build their development strategies around growth, or should they focus on jobs? Can entrepreneurship be fostered, especially among the many microenterprises in developing countries, or are entrepreneurs born? Are greater investments in education and training a prerequisite for employability, or can skills be built through jobs? In times of major crises and structural shifts, should jobs, not just workers, be protected? And is there a risk that policies supporting job creation in one country will come at the expense of jobs in other countries? The World Development Report 2013: Jobs offers answers to these and other difficult questions

by looking at jobs as drivers of development—not as derived labor demand—and by considering all types of jobs—not just formal wage employment. The Report provides a framework that cuts across sectors and shows that the best policy responses vary across countries, depending on their levels of development, endowments, demography, and institutions. Policy fundamentals matter in all cases, as they enable a vibrant private sector, the source of most jobs in the world. Labor policies can help as well, even if they are less critical than is often assumed. Development policies, from making smallholder farming viable to fostering functional cities to engaging in global markets, hold the key to success.

The Qualified Student - Harold S. Wechsler 2014-09-15

In *The Qualified Student* Harold S. Wechsler focuses on methods of student selection used by institutions of higher education in the United States. More specifically, he discusses the way that college and university reformers employed those methods to introduce higher education into a broader cross-section of America, by extending access to an increased number of students from nontraditional backgrounds. Implicit in much of this book is an underlying social and ethical question: How legitimate was and is higher education's regulation of social mobility? Public concern over colleges' and universities' practices became inevitable once they became regulators between social classes. The challenging of colleges' admissions policies in the courts augments similar concerns that have been present in legislatures for decades. The volume is divided into three main sections: Prerequisites, Columbia and the Selective Function, and Implications. It focuses mainly on four universities, The University of Michigan, Columbia University, the University of Chicago, and the City University of New York. Wechsler maintains that unlike other universities, these institutions were pacesetters; they did not adopt a new policy simply because some other college had already adopted it. A new introduction brings the book, originally published in 1977, up to date and demonstrates its continuing importance in today's academic world of selective admissions.

Good Agricultural Practices for Greenhouse Vegetable Crops - 2013

This publication capitalizes on the experience of scientists from the North Africa and Near East countries, in collaboration with experts from around the world, specialized in the different aspects of greenhouse crop production. It provides a comprehensive description and assessment of the greenhouse production practices in use in Mediterranean climate areas that have helped diversify vegetable production and increase productivity. The publication is also meant to be used as a reference and tool for trainers and growers as well as other actors in the greenhouse vegetables value chain in this region.

Bioresource Utilization and Management - Hrudayanath Thatoi 2021-10-07

The need for exploration, conservation, and sustainable utilization of bioreources is undeniable for the survival and growth of mankind. This new book throws light on new and recent research on and development of effective strategies for sustainable utilization of bioreources using modern tools and techniques to help meet this challenge. This volume addresses the utilization of bioreources in therapeutics, in biofuel, in agriculture, and in environmental protection. Beginning with the diverse potential applications of bioreources in food, medicine, and cosmetics, the volume goes on to address the various different underutilized bioreources and their sustainable uses. It discusses important advances in biofuel and patents that highlight recent developments that address the energy crises and the continuously fluctuating cost of petroleum. It explores new renewable energy sources from bioreources and their sustainable utilization in the bioenergy and biofuel industry. Several chapters focus on the sustainable utilization of bioreources in the agricultural sector. The volume considers that developing countries have huge agricultural resources that could be employed for production of value-added byproducts for the sustainable development of a bio-based economy. The book discusses efficient use of underexploited natural bioreources, new chemical approaches for the generation of novel biochemicals, and the applications of genetics approaches for bioreource conservation and production of value-added products. Further, strategies for the production of biopesticides utilizing bioreources are also discussed.

Sustainability Standards and Global Governance - Archana Negi 2020-07-02

This open access book focuses on the issue of sustainability standards from the perspective of both global governance frameworks and emerging economies. It stems from the recognition that the accelerated pace of economic globalization has generated production and consumption patterns that are generating sustainability concerns. Sustainability standards (and regulations) are increasingly being used in a bid to

make global consumption and production more sustainable. Given the dense inter-connectedness of economic affairs globally, the use of sustainability standards has become a concern of global governance, who face the challenge of achieving a balance between the use of standards for genuine sustainability objectives, and not allowing them to turn into instruments of protectionism or coercion. The emerging economies, given their increasing engagement with the global economy, are most impacted by the use of sustainability standards. The emphasis of 'emerging economies' in this book is retained both by using case studies from these economies and by collating perceptions and assessments of those located in these economies. The case studies included span sectors such as palm oil, forestry, food quality, vehicular emissions and water standards, and address the problems unique to the emerging economies, including capacity building for compliance with standards, adapting international standards in domestic contexts and addressing the exclusion of small and medium enterprises etc. Complex interfaces and dynamics of a global nature are not limited to the thematic of this book but also extend to the process through which it was written. This book brings together insights from developed as well as emerging economies (Germany, India, Mexico, Brazil, Indonesia, Pakistan, Mexico and China). It also brings together scholars and practitioners to jointly ponder upon the conceptual aspects of the global frameworks for sustainability standards. This book is a very useful resource for researchers and practitioners alike, and provides valuable insights for policy makers as well.

Geo-Spatial Knowledge and Intelligence - Hanning Yuan 2017-03-02

The two volume proceedings of CCIS 698 and 699 constitutes revised selected papers from the 4th International Conference on Geo-Informatics in Resource Management and Sustainable Ecosystem, GRMSE 2016, held in Hong Kong, China, in November 2016. The total of 118 papers presented in these proceedings were carefully reviewed and selected from 311 submissions. The contributions were organized in topical sections named: smart city in resource management and sustainable ecosystem; spatial data acquisition through RS and GIS in resource management and sustainable ecosystem; ecological and environmental data processing and management; advanced geospatial model and analysis for understanding ecological and environmental processes; applications of geo-informatics in resource management and sustainable ecosystem.

Congressional Record - United States. Congress 2012

Ag Student - 1906

Biostimulants in Agriculture - Youssef Roupheal 2020-03-24

The Physical Geography and Geology of the Driftless Area - Eric C. Carson 2019-11-04

Assessing the Energy Efficiency of Pumps and Pump Units - em. Dr.-Ing Bernd Stoffel 2015-04-10

Assessing the Energy Efficiency of Pumps and Pump Units, developed in cooperation with Europump, is the first book available providing the background, methodology, and assessment tools for understanding and calculating energy efficiency for pumps and extended products (pumps+motors+drives). Responding to new EU requirements for pump efficiency, and US DOE exploratory work in setting pump energy efficiency guidelines, this book provides explanation, derivation, and illustration of PA and EPA methods for assessing energy efficiency. It surveys legislation related to pump energy efficiencies, provides background on pump and motor efficiencies, and describes the concept of Energy Efficiency Index (EEI) for circulators and single and multi-pump systems. The first book to cover Europump- sponsored research on energy efficiency in pumps, including coverage of new EU guidelines implemented in January 2015 Discusses Product Approach (PA) and Extended Product Approach (EPA) to assessing energy efficiency Derives and explains the Minimum Efficiency Index (MEI)

A Framework for K-12 Science Education - National Research Council 2012-02-28

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To

address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that

can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

The Environment and Science and Technology Education - A. V. Baez 2013-10-22

The Environment and Science and Technology Education covers topics on key issues in environmental education; school-based primary and secondary education; and community-based environmental education. The book also discusses topics on tertiary, professional and vocational environmental education and non-formal public environmental education. The text will give practical help to teachers in all countries in order to raise standards of education in those topics essential for development.

History of Soy Flour, Grits and Flakes (510 CE to 2013) - William Shurtleff 2013-12-01

The world's most comprehensive, well document, and well illustrated book on this subject. With extensive index. 28 cm.