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AGROECOSYSTEMS

SOILS, CLIMATE, CROPS, NUTRIENT DYNAMICS AND PRODUCTIVITY

CRC Press Comprised of three sections, this covers the nutrient dynamics and productivity of global agroecosystems. It focuses on the major aspects that make up agroecosystems, such as soils, climate, crops, nutrient dynamics, and productivity. It introduces agroecosystems and describes global soil types that support vast crop belts, then deals with the principles that drive crop growth, nutrient dynamics and ecosystematic functions within any agroecosystem. It also details the influence of agronomic practices and factors such as soil microbes, organic matter, crop genetic nature, irrigation, weeds, and cropping systems that affect productivity of agroecosystems.

CIVIC ENGAGEMENT IN FOOD SYSTEM GOVERNANCE

A COMPARATIVE PERSPECTIVE OF AMERICAN AND BRITISH LOCAL FOOD MOVEMENTS

Routledge The local food movement is one of the most active of current civil engagement social movements. This work presents primary evidence from over 900 documents, interviews, and participant observations, and provides the first descriptive history of local food movement national policy achievements in the US, from 1976 to 2013, and in the UK, from 1991 to 2013, together with reviews of both the American and British local food movements. It provides a US-UK comparative context, significantly updating earlier comparisons of American, British and European farm and rural policies. The comparative perspective shows that, over time, more effective strategies for national policy change required social-movement building strategies, such as collaborative policy coalitions, capacity-building for smaller organizations, and policy entrepreneurship for joining together separate rural, farming, food, and health interests. In contrast, narrowly-defined single issue campaigns often undermined long-term policy change, even if short-term wins emerged. By profiling interviews of American and English movement leaders, policymakers, and funders, the book demonstrates that democratic participation in food policy is best supported when funders incentivize groups to work together and overcome their differences.

SUSTAINABLE BIOENERGY PRODUCTION - AN INTEGRATED APPROACH

Springer Science & Business Media This book focuses primarily on the advantages and implications of sustainable bioenergy production in terms of ensuring a more sustainable world despite its growing energy demands. It addresses a new concept that focuses on the interactions between different uses of agricultural land (for example, agriculture for food, forage or energy and nature conservation) and their ecological, economic and societal impacts. This research concept provides new insights into the competition for resources and the synergies between different land uses. This book seeks to improve people's understanding of bioenergy's potentials for the future. It will be of interest not only to those involved in sustainable energy, but also to environmental planners, agriculture and soil specialists, and environmental policy-makers.

ENVIRONMENTAL SECURITY AND INDIA

GLOBAL CONCERNS AND NATIONAL INTERESTS

Taylor & Francis This book examines environmental issues through the lens of security studies and presents a comprehensive analysis of Indian policy in dealing with threats posed by climate change. This volume, • Puts forward theoretical base for securitization of environmental issues, incorporating different schools of thought; • Presents a survey of global environmental politics in general and the effects of climate change and its consequences for India's national security in particular; • Examines the politics involved in India's environmental policy at both the domestic and international level; • Outlines key policy takeaways and possibilities for action that can help contain the threat of environmental change. A comprehensive guide to a new and emerging dimension in Indian security policy, this book will be essential reading for students and researchers of international relations, security studies, especially non-traditional security, public policy, especially environmental policy, and area studies.

URBAN AGRICULTURE FOR GROWING CITY REGIONS

CONNECTING URBAN-RURAL SPHERES IN CASABLANCA

Routledge This book demonstrates how agriculture can play a determining role in integrated, climate-optimised urban development. Agriculture within urban growth centres today is more than an economic or social left-over or a niche practice. It is instead a complex system that offers multiple potentials for interaction with the urban system. Urban open space and agriculture can be linked to a productive green infrastructure - this forms new urban-rural linkages in the urbanizing region and helps shape the city. But in order to do this, agriculture has to be seen as an integral part of the urban fabric and it has to be put on the local agenda. Urban Agriculture for Growing City Regions takes the example of Casablanca, one of the fastest growing cities in North Africa, to investigate this approach. The creation of synergies between the urban and rural in an emerging megacity is demonstrated through pilot projects, design solutions, and multifunctional modules. These synergies assure greater resource efficiency; particularly regarding the use and reuse of water, and they strengthen regional food security and the social integration of multiple spheres. A transdisciplinary research approach brings together different scientific disciplines and local actors into a process of integrated knowledge production. The book will have a long lasting legacy and is essential reading for researchers, planners, practitioners and policy makers who are working on urban development and urban agricultural strategies.

BIOTECHNOLOGY IN AFRICA

EMERGENCE, INITIATIVES AND FUTURE

Springer In this book, Florence Wambugu and Daniel Kamanga of Africa Harvest Biotech Foundation International bring together expert African authorities to critique various biotechnology initiatives and project future developments in the field in Africa. For the first time, African voices from multidisciplinary fields as diverse as economics, agriculture, biotechnology, law, politics and academia, demand to be allowed to set the continent's biotech development agenda. This book argues that there is a great future for biotechnology in Africa which sidesteps western interests that do not match those of the local populace. In these diverse chapters, Africa's political and scientific leaders demand a greater say in how research and development funds are allocated and spent. They argue that Africa's political leaders must see both clear benefits and have elbow-room to drive the change required. This is the way that African governments can employ workable policies, suitable biosafety legislation and regulation and respond effectively to public-private partnerships. Wambugu and Kamanga show that biotechnology has the potential to improve food security and standard of living as well as mitigate the detrimental effects of climate change on the African continent.

UNDERSTANDING ENVIRONMENTAL HEALTH

HOW WE LIVE IN THE WORLD

Jones & Bartlett Publishers Rather than organizing topics around the traditional regulatory fields (air and water pollution, hazardous wastes, radiation, etc.), this book is structured around the choices we make as individuals and societies that result in environmental health hazards. The author details the hazards of energy production, industry, food production, and the modern lifestyle, while exploring our place within the local and global community.

SCIENCE AS SERVICE

ESTABLISHING AND REFORMULATING AMERICAN LAND-GRANT UNIVERSITIES, 1865-1930

University of Alabama Press Science as Service is a collection of essays that traces the development of the land-grant colleges established by the Morrill Act of 1862, and documents how their faith and efforts in science and technology gave credibility and power to these institutions and their scientists.

COMBATING HUMAN TRAFFICKING

GAPS IN POLICY AND LAW

SAGE Publications India This book demystifies the term "trafficking" with a view to properly understand its trends, dimensions, and gaps in policy and law that need to be plugged. Combating Human Trafficking aims to initiate fresh discussion on human trafficking, and offers recommendations to curb organized international crime. It explores varied dimensions of the crime and offers further classification to help effectively address the problem. It presents a new perspective of identifying assimilative interaction between social and criminal justice systems, the progressive growth in socio-criminal legislations, and the universal demand of multi-agency approach to combat trafficking. Through the Brute Mute theory, it gives an illustrative description of micro- and macro-governance, and offers a global perspective to the problem with examples and case studies.

CARING FOR CREATION

HOPE IN DIFFICULT TIMES

Rowman & Littlefield Caring for Creation: Hope in Difficult Times argues that progress has been made in areas such as protection of endangered species, the sustainable agriculture movement, and recycling. While much remains to be done in these and other areas, this progress is cause for optimism about the future.

FROM JICAMA TO JACKFRUIT

THE GLOBAL POLITICAL ECONOMY OF FOOD

Routledge What did you have for breakfast? Did you ever stop to think about the people and steps involved with how your banana or cereal got on your plate? Nearly everyone is a part of the global food system, yet few people are aware of how it operates. Kimberly A. Weir starts by evaluating how we are connected with spice farmers, cocoa bean growers, soybean producers, tomato pickers, and tuna fishers not only gives insight into where we fit in the global food chain, but also offers a unique way to understand the aspects and concepts of the global political economy. The book begins by figuring out where readers fit in the global food chain, looking at what affects eating habits and choices, and situating these factors in a global context. From Jicama to Jackfruit provides that insight in abundance.

COLD, HUNGRY AND IN THE DARK

EXPLODING THE NATURAL GAS SUPPLY MYTH

New Society Publisher An energy industry insider delivers hard truths about the reality of fracking. Conventional wisdom has North America entering a new era of energy abundance thanks to shale gas. But has industry been honest? Cold, Hungry and in the Dark argues that declining productivity combined with increasing demand will trigger a crisis that will cause prices to skyrocket, damage the economy, and have a profound impact on the lives of nearly every North American. Relying on faulty science, bought-and-paid-for-white papers masquerading as independent research and "industry consultants," the "shale promoters" have vastly overstated the viable supply of shale gas resources for their own financial gain. This startling exposé, written by an industry insider, suggests that the stakes involved in the Enron scandal might seem like lunch money in comparison to the bursting of the natural gas bubble. Exhaustively researched and rigorously documented, Cold, Hungry and in the Dark: · Puts supply-and-demand trends under a microscope · Provides overwhelming evidence of the absurdity of the one hundred-year supply myth · Suggests numerous ways to mitigate the upcoming natural gas price spike The mainstream media has told us that natural gas will be cheap and plentiful for decades, when nothing could be further from the truth. Forewarned is forearmed. Cold, Hungry and in the Dark is vital reading for anyone concerned about the inevitable economic impact of our uncertain energy future. "Powers's step-by-step dismantling of the abundance myth ought to alarm policymakers, corporate managers, investors, business owners, and concerned citizens alike."—Kurt Cobb, author of Prelude and contributor to The Christian Science Monitor

OECD SCIENCE, TECHNOLOGY AND INDUSTRY OUTLOOK 2012

OECD Publishing Based on the latest information and indicators in science and innovation, the OECD Science, Technology and Industry Outlook 2012 reviews key trends in STI policies and performance in OECD countries and major emerging economies, and across a number of thematic areas.

NUTRITION IN PEDIATRICS

BASIC SCIENCE, CLINICAL APPLICATIONS

PMPH USA, Ltd

2012 GLOBAL FOOD POLICY REPORT

Intl Food Policy Res Inst This 2012 Global Food Policy Report is the second in an annual series that provides an in-depth look at major food policy developments and events. Initiated in response to resurgent interest in food security, the series offers a yearly overview of the food policy developments that have contributed to or hindered progress in food and nutrition security. It reviews what happened in food policy and why, examines key challenges and opportunities, shares new evidence and knowledge, and highlights emerging issues. In 2012, world food security remained vulnerable. While talk about hunger and malnutrition was plentiful, it remains to be seen whether current and past commitments to invest in agriculture, food security, and nutrition will be met. New data from the Food and Agriculture Organization of the United Nations suggest that the world will fall short of achieving the first Millennium Development Goal of halving the prevalence of undernutrition by 2015. Translating commitments into action is thus even more urgent.

ENCYCLOPEDIA OF INFORMATION SCIENCE AND TECHNOLOGY, THIRD EDITION

IGI Global "This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

POWERLESS

INDIA'S ENERGY SHORTAGE AND ITS IMPACT

SAGE Publishing India This is a book about India's energy shortage, its causes, and consequences. Powerless details how much coal, oil, gas, uranium, and power the country uses, and for what purposes. It examines the quantity of these things the country produces and where. The book looks at the sizes of the gaps between supply and demand, and how the country fills them with imports. It then discusses how the shortages and resulting imports affect the country's economy, businesses, and residents. After examining the current scenario, the author moves on to look at predictions for how fast demand and supply will grow, how big the shortages of natural resources might become in the next few years, and whether India is likely to be able—politically, logistically, and financially—to fill these gaps with imports. The book also looks at the environmental and health effects of India's growing energy use, and how efforts to mitigate these are likely to affect demand for coal, oil, gas, and uranium.

THE SAGE HANDBOOK OF GLOBALIZATION

SAGE Global studies is a fresh and dynamic discipline area that promises to reinvigorate undergraduate and postgraduate education in the social sciences and humanities. In the Australian context, the interdisciplinary pedagogy that defines global studies is gaining wider acceptance as a coherent and necessary approach to the study of global change. Through the Global Studies Consortium (GSC), this new discipline is forming around an impressive body of international scholars who define their expertise in global terms. The GSC paves the way for the expansion of global studies programs internationally and for the development of teaching and research collaboration on a global scale. Mark Juergensmeyer and Helmut Anheier's forthcoming Encyclopaedia of Global Studies with SAGE is evidence of this growing international collaboration, while the work of Professor Manfred Steger exemplifies the flourishing academic literature on globalization. RMIT University's Global Cities Institute represents a substantial institutional investment in interdisciplinary research into the social and environmental implications of globalization in which it leads the way internationally. Given these developments, the time is right for a book series that draws together diverse scholarship in global studies. This Handbook allows for extended treatment of critical issues that are of major interest to researchers and students in this emerging field. The topics covered speak to an interdisciplinary approach to the study of global issues that reaches well beyond the confines of international relations and political science to encompass sociology, anthropology, history, media and cultural studies, economics and governance, environmental sustainability, international law and criminal justice. Specially commissioned chapters explore diverse subjects from a global vantage point and all deliberately cohere around core "global" concerns of narrative, praxis, space and place. This integrated approach sets the Handbook apart from its competitors and distinguishes Global Studies as the most equipped academic discipline with which to address the scope and pace of global change in the 21st century.

MARINE ALGAE EXTRACTS, 2 VOLUME SET

PROCESSES, PRODUCTS, AND APPLICATIONS

John Wiley & Sons Designed as the primary reference for the biotechnological use of macroalgae, this comprehensive handbook covers the entire value chain from the cultivation of algal biomass to harvesting and processing it, to product extraction and formulation. In addition to covering a wide range of product classes, from polysaccharides to terpenes and from enzymes to biofuels, it systematically discusses current and future applications of algae-derived products in pharmacology, medicine, cosmetics, food and agriculture. In doing so, it brings together the expertise of marine researchers, biotechnologists and process engineers for a one-stop resource on the biotechnology of marine macroalgae.

SAVING MORE THAN SEEDS

PRACTICES AND POLITICS OF SEED SAVING

Routledge Saving More Than Seeds advances understandings of seed-people relations, with particular focus on seed saving. The practice of reusing and exchanging seeds provides foundation for food production and allows humans and seed to adapt together in dynamic socio-natural conditions. But the practice and its practitioners are easily taken for granted, even as they are threatened by neoliberalisation. Combining original ethnographic research with investigation of an evolving corporate seed order, this book reveals seed saving not only as it occurs in fields and gardens but also as it associates with genebanking, genetic engineering, intellectual property rights, and agrifood regulations. Drawing on diverse social sciences literatures, Phillips illustrates ongoing practices of thinking, feeling, and acting with seeds, raising questions about what seed-people relations should accomplish and how different ways of relating might be pursued to change collective futures.

HANDBOOK ON THE GLOBALISATION OF AGRICULTURE

Edward Elgar Publishing This Handbook provides insights to the ways in which globalisation is affecting the whole agri-food system from farms to the consumer. It covers themes including the physical basis of agriculture, the influence of trade policies, the nature of globalis

SCIENCE BREAKTHROUGHS TO ADVANCE FOOD AND AGRICULTURAL RESEARCH BY 2030

National Academies Press For nearly a century, scientific advances have fueled progress in U.S. agriculture to enable American producers to deliver safe and abundant food domestically and provide a trade surplus in bulk and high-value agricultural commodities and foods. Today, the U.S. food and agricultural enterprise faces formidable challenges that will test its long-term sustainability, competitiveness, and resilience. On its current path, future productivity in the U.S. agricultural system is likely to come with trade-offs. The success of agriculture is tied to natural systems, and these systems are showing signs of stress, even more so with the change in climate. More than a third of the food produced is unconsumed, an unacceptable loss of food and nutrients at a time of heightened global food demand. Increased food animal production to meet greater demand will generate more greenhouse gas emissions and excess animal waste. The U.S. food supply is generally secure, but is not immune to the costly and deadly shocks of continuing outbreaks of food-borne illness or to the constant threat of pests and pathogens to crops, livestock, and poultry. U.S. farmers and producers are at the front lines and will need more tools to manage the pressures they face. Science Breakthroughs to Advance Food and Agricultural Research by 2030 identifies innovative, emerging scientific advances for making the U.S. food and agricultural system more efficient, resilient, and sustainable. This report explores the availability of relatively new scientific developments across all disciplines that could accelerate progress toward these goals. It identifies the most promising scientific breakthroughs that could have the greatest positive impact on food and agriculture, and that are possible to achieve in the next decade (by 2030).

LOCAL KNOWLEDGE, INTELLECTUAL PROPERTY AND AGRICULTURAL INNOVATION

Springer Nature This book examines the role of local knowledge in promoting agricultural innovation and legislative support for agricultural innovation through intellectual property laws and the protection of farmers' rights. In assessing the role of intellectual property in promoting agricultural innovation the book examines plant variety rights protection, the patenting of plant varieties and plant breeding methods; gene patents and climate change; open source biotechnology and agricultural innovation and geographical indications and the marketing of agricultural products. As a test bed for the application of the themes of the book, it applies a case study approach to look at the role of local knowledge and intellectual property rights in the cultivation of traditional rice varieties in Kerala, South West India and the extent to which this cultivation is supported by Indian legislation. The book concludes with an examination of the success of self-help groups, such as Farmers' Clubs. This book appeals to all readers interested in policies to promote sustainable agriculture at a time of increasing food insecurity. A special feature of the book is the case study approach. To date, the role of local knowledge and agricultural innovation has been almost entirely ignored and the role of intellectual property in this space has been largely ignored. The book is a result of a research collaboration between the University of Western Australia and Kerala Agricultural University, funded in part by the Australian Research Council.

CONTEMPORARY ISSUES OF SUSTAINABLE RURAL DEVELOPMENT: INTERNATIONAL APPROACHES AND EXPERIENCES OF EASTERN EUROPE AND RUSSIA / СОВРЕМЕННЫЕ АСПЕКТЫ УСТОЙЧИВОГО РАЗВИТИЯ СЕЛЬСКОЙ МЕСТНОСТИ: МЕЖДУНАРОДНЫЕ ПОДХОДЫ И ОПЫТ СТРАН ВОСТОЧНОЙ ЕВРОПЫ И РОССИИ

Litres Монография предназначена для научных сотрудников, преподавателей, аспирантов и студентов вузов экономических, гуманитарных, сельскохозяйственных и туристических специальностей, а также всех интересующихся современным состоянием и перспективами устойчивого развития сельских территорий, подходами к обеспечению устойчивого развития в разных странах мира, включая Европейский Союз в целом и регион Восточной Европы в частности, Содружество Независимых Государств и Россию. Кроме вопросов устойчивого развития сельских территорий в монографии рассмотрены аспекты повышения устойчивости сельскохозяйственного производства, проблемы обеспечения продовольственной безопасности, современные тенденции международной торговли сельскохозяйственной продукцией и продовольствием в условиях либерализации торговых отношений, перспективы развития сельского туризма как фактора обеспечения устойчивого развития сельских территорий, а также направления рационального природопользования и реализации природного и ресурсного потенциала различных стран. Монография издана за счет средств гранта ФГБОУ ВПО Ставропольский ГАУ в области науки и инноваций для молодых ученых.

FAT IS OUR FRIEND

eBook Partnership 'Fat is our Friend' will change the way you think about what you eat. Confused by the nutrition messages coming from governments and health bodies? Confused by the ever-changing advice from our daily newspapers? Join Sammy Pepys in his quest to discover what's really going on and what you can do to eat more healthily ... and lose weight. In that order. Back in 2012, Sammy Pepys just wanted to help his overweight sister-in-law, Katy, avoid a tummy tuck (bariatric surgery), knowing that all previous attempts at dieting had failed. So he developed a plan showing how best to go about things, which she then put into practice. It worked. And it was the first successful diet Katy had ever completed, achieving a 20 kilo weight loss and much-improved blood sugar levels along the way. Having an inquisitive mind, Sammy spent much of the next three years finding out just why Katy's dietary approach had been so successful and why more people are not eating this way. He learned that: 'We've effectively been brainwashed into thinking fats and oils are bad for us. Healthy fats such as butter, lard, coconut and olive oil facilitate the essential metabolic functions our bodies perform subconsciously day and night. An excess of sugar, refined flour, synthetic additives and those less-desirable vegetable seed oils - aka junk food - is progressively damaging our bodies. Katy's summary? 'Eat more real food, drop starches and sugar, and learn to love full-fat dairy products like cheeses and butter again to lose weight without feeling hungry. I feel energized.'

WATER GOVERNANCE: CHALLENGES AND PROSPECTS

Springer The book is the first of its kind to deal with almost the entire swath of water resources assessment, development and sustainable management. The idea of the book crystallized during the long journey of the Editors on various facets of water issues in India and abroad during their extended association, at all levels with the Ministry of Water Resources, River Development and Ganga Rejuvenation, as well as International Organizations dealing with water. Currently water-stressed, India is likely to become water scarce in not too distant a future. The global freshwater supply and its sustainable use for human consumption, and conservation of the ecosystem have never come under such a rigorous scrutiny before. The unplanned and reckless exploitation of this precious resource have led to a crisis situation, compounded by a real threat of climate change. This book is, therefore, timely and of particular relevance not only to India but the entire world. The book contains 20 chapters, beside the lead article by the Editors. The chapters are contributed by the eminent professionals, researchers, academicians and civil society representatives having an in-depth understanding of the issues. The contents of the chapters have been chosen to represent all aspects of water. The assessment of water resources using satellite data and in-depth analyses of groundwater sector like, the Aquifer Mapping Programme initiated by Government of India, application of gravity satellite data to assess the resource build up, artificial recharge of aquifers and its contamination, are dealt with by eminent experts. The articles on sustainable management of water through good governance by community participation and involvement of civil society are placed. Flood management both through a basin level approach as well as by building resilience in vulnerable areas is discussed. Other critical issues like water bodies management, constitutional provisions, water governance and financial issues, hydro-power and need of research and development in this sector are also dealt with aptly. In view of emerging crisis and complexities in this sector the future pathways and the paradigm shift that is required in administrative and policy level is also discussed.

RECLAIMING FOOD SECURITY

Routledge In this challenging work, the author argues that the goal of any food system should not simply be to provide the cheapest calories possible. A secure food system is one that affords people and nations - in both the present and future - the capabilities to prosper and lead long, happy, and healthy lives. For a variety of reasons, food security has come to be synonymous with cheap calorie security. On this measure, the last fifty years have been a remarkable success. But the author shows that these cheap calories have also come at great cost, to the environment, individual and societal well-being, human health, and the food sovereignty of nations. The book begins by reviewing the concept of food security, particularly as it has been enacted within agrifood and international policy over the last century. After proposing a coherent definition the author then assesses empirically whether these policies have actually made us and the environment any better off. One of the many ways the author accomplishes this task is by introducing the Food and Human Security Index (FHSI) in an original attempt to better measure and quantify the affording qualities of food systems. A FHSI score is calculated for 126 countries based on indicators of objective and subjective well-being, nutrition, ecological sustainability, food dependency, and food system market concentration. The final FHSI ranking produces many counter-intuitive results. Why, for example, does Costa Rica top the ranking, while the United States comes in at number fifty-five? The author concludes by arguing for the need to reclaim food security by returning the concept to something akin to its original spirit, identified earlier in the book. While starting at the level of the farm the concluding chapter focuses most of its attention beyond the farm gate, recognizing that food security is more than just about issues surrounding production. For example, space is made in this chapter to address the important question of, "What can we eat if not GDP?" We need, the author contends, a thoroughly sociological rendering of food security: a position that views food security not as a thing - or an end in itself - but as a process that ought to make people and the Planet better off.

THE EMISSIONS GAP REPORT 2015

A UNEP SYNTHESIS REPORT

United Nations The UN Environment Emissions Gap Report assesses the latest scientific studies on current and estimated future greenhouse gas emissions and compares these with the emission levels permissible for the world to progress on a least-cost pathway to achieve the goals of the Paris Agreement. This difference between [where we are likely to be and where we need to be] is known as the [emissions gap]. The report explores some of the most important options available for countries to bridge the gap.

FOOD TYRANTS

FIGHT FOR YOUR RIGHT TO HEALTHY FOOD IN A TOXIC WORLD

Simon and Schuster When author and homesteader Nicole Faires decided to retrofit an old school bus and tour America's small farms with her husband and two small children, she expected to learn a lot, be inspired, and have some fun. But what she fou

AGRICULTURAL FINANCE REVIEW

WHOLE

RETHINKING THE SCIENCE OF NUTRITION

BenBella Books, Inc, New York Times Bestseller What happens when you eat an apple? The answer is vastly more complex than you imagine. Every apple contains thousands of antioxidants whose names, beyond a few like vitamin C, are unfamiliar to us, and each of these powerful chemicals has the potential to play an important role in supporting our health. They impact thousands upon thousands of

metabolic reactions inside the human body. But calculating the specific influence of each of these chemicals isn't nearly sufficient to explain the effect of the apple as a whole. Because almost every chemical can affect every other chemical, there is an almost infinite number of possible biological consequences. And that's just from an apple. Nutritional science, long stuck in a reductionist mindset, is at the cusp of a revolution. The traditional "gold standard" of nutrition research has been to study one chemical at a time in an attempt to determine its particular impact on the human body. These sorts of studies are helpful to food companies trying to prove there is a chemical in milk or pre-packaged dinners that is "good" for us, but they provide little insight into the complexity of what actually happens in our bodies or how those chemicals contribute to our health. In *The China Study*, T. Colin Campbell (alongside his son, Thomas M. Campbell) revolutionized the way we think about our food with the evidence that a whole food, plant-based diet is the healthiest way to eat. Now, in *Whole*, he explains the science behind that evidence, the ways our current scientific paradigm ignores the fascinating complexity of the human body, and why, if we have such overwhelming evidence that everything we think we know about nutrition is wrong, our eating habits haven't changed. *Whole* is an eye-opening, paradigm-changing journey through cutting-edge thinking on nutrition, a scientific tour de force with powerful implications for our health and for our world.

21ST CENTURY HOMESTEAD: ORGANIC FOOD

Lulu.com

AGRI-INPUT MARKETING IN INDIA

SAGE Publishing India Agri-input companies have played a significant role in transforming the post-Independence "ship-to-mouth" Indian economy, dependent on food grain imports, into a self-sufficient economy. Though agricultural productivity is declining and environmentalists are questioning the use of agri-inputs, Indian agriculture cannot do away with agri-inputs. This book, after understanding the past policy environment, agri-input marketing, and promotion strategies of both the government and private companies, suggests frameworks for agri-input marketing companies to align their strategies to the new objective of sustainable agriculture. The book will serve as a text for students in the agribusiness management programmes and also as a guide for practicing managers and policy makers.

EARTH REPAIR

A GRASSROOTS GUIDE TO HEALING TOXIC AND DAMAGED LANDSCAPES

New Society Publishers A practical guide to bioremediation: natural techniques that are proven to heal land damaged by pollution. In the United States and Canada alone, millions of acres have been contaminated by pesticides, chemicals, dirty energy projects, toxic waste, and other pollutants. Conventional clean-up techniques are expensive and resource-intensive and can cause further damage. Communities find themselves increasingly unable to rely on the same companies and governments that created the problems to step in and provide solutions. Packed with valuable information from visionaries in the field of bioremediation, *Earth Repair* empowers individuals to heal contaminated and damaged land. It encompasses everything from remediating and regenerating abandoned city lots for urban farmers and gardeners, to recovering from environmental disasters and industrial catastrophes such as oil spills and nuclear fallout. This fertile toolbox covers various remediation methods including: · Microbial remediation: using microorganisms to break down and bind contaminants · Phytoremediation: using plants to extract, bind, and transform toxins · Mycoremediation: using fungi to clean up contaminated soil and water

PLANNING LOCAL ECONOMIC DEVELOPMENT

THEORY AND PRACTICE

SAGE Publications Written by authors with years of academic, regional, and city planning experience, this classic text has laid the foundation for practitioners and academics working in planning and policy development for generations. With deeper coverage of sustainability and resiliency, the new Sixth Edition explores the theories of local economic development while addressing the issues and opportunities faced by cities, towns, and local entities in crafting their economic destinies within the global economy. Nancey Green Leigh and Edward J. Blakely provide a thoroughly up-to-date exploration of planning processes, analytical techniques and data, and locality, business, and human resource development, as well as advanced technology and sustainable economic development strategies.

STRUCTURE, AGENCY AND BIOTECHNOLOGY

THE CASE OF THE ROTHAMSTED GM WHEAT TRIALS

Anthem Press *Structure, Agency and Biotechnology* argues for the significance of sociological theory and highlights the insights it can offer to the study of agricultural biotechnology. Cautioning against a simplistic reading of the GM controversy as merely a debate of science versus politics, Aristeidis Panagiotou suggests that the discussion should be embedded in the wider social, political, economic and cultural contexts. *Structure, Agency and Biotechnology* assesses the 2012 Rothamsted GM wheat trials and proposes that the tension underlying GM technology should be resolved through sustained dialogue, public involvement and broad scientific consensus.

LEARN SOCIOLOGY

Jones & Bartlett Publishers *Learn Sociology* creates a new paradigm for student-centered learning in introductory sociology courses. Written with 21st century students in mind, this text presents introductory sociology content in a highly interactive format that is both easy to use and highly compatible with digital applications. Drawing on best practices in educational pedagogy, *Learn Sociology* emphasizes "immersive learning," an approach that pairs critical analysis of sociological concepts with examples from everyday life to engage students actively with the material. Weaved through the text are recurring themes that put sociology into context, such as social structure, social control, social inequality, the social construction of reality, scientific knowledge, and social change. *Learn Sociology* optimizes learning through enhanced coverage, study, testing, and review while emphasizing the "applying" that reinforces comprehension. Based on a modular concept format, each chapter in *Learn Sociology* addresses a major concept in the introductory sociology curriculum. Associated with each module are key learning objectives, preview statements, illustrations, and a concept learning check assessment. With *Learn Sociology*, students have access to immediate computer-based feedback on essay questions that helps them practice writing and revising, reason critically, and grapple with real-world issues. All content in *Learn Sociology* is highly visual, current, and easy to understand while avoiding distracting and off-topic material. Visual overviews play to dynamic learning and underscore important points. The result is an introductory sociology curriculum that is engaging, consistent, and complete while providing students with a roadmap for learning, reviewing and self-assessment.

THE END OF PLENTY: THE RACE TO FEED A CROWDED WORLD

W. W. Norton & Company "An urgent and at times terrifying dispatch from a distinguished reporter who has given heart and soul to his subject."—Hampton Sides In *The End of Plenty*, award-winning environmental journalist Joel K. Bourne Jr. puts our fight against devastating world hunger in dramatic perspective. He travels the globe to introduce a new generation of farmers and scientists on the front lines of the next green revolution. He visits corporate farmers trying to restore Ukraine as Europe's breadbasket, a Canadian aquaculturist, the agronomist behind the world's largest organic sugarcane plantation, and many other extraordinary farmers, large and small, who are racing to stave off catastrophe as climate change disrupts food production worldwide. A *Financial Times* Best Book of the Year and a Finalist for the PEN / E. O. Wilson Literary Science Writing Award.

BEASTS OF BURDEN

ANIMAL AND DISABILITY LIBERATION

The New Press A beautifully written, deeply provocative inquiry into the intersection of animal and disability liberation—and the debut of an important new social critic How much of what we understand of ourselves as "human" depends on our physical and mental abilities—how we move (or cannot move) in and interact with the world? And how much does our definition of "human" depend on its difference from "animal"? Drawing on her own experiences as a disabled person, a disability activist, and an animal advocate, author Sunaura Taylor persuades us to think deeply, and sometimes uncomfortably, about what divides the human from the animal, the disabled from the nondisabled—and what it might mean to break down those divisions, to claim the animal and the vulnerable in ourselves, in a process she calls "cripping animal ethics." *Beasts of Burden* suggests that issues of disability and animal justice, which have heretofore primarily been presented in opposition, are in fact deeply entangled. Fusing philosophy, memoir, and science—including factory farming, disability oppression, and our assumptions of human superiority over animals—Taylor draws attention to new worlds of experience and empathy that will open up important avenues of solidarity across species and ability. *Beasts of Burden* is a wonderfully engaging and elegantly written work, both philosophical and personal, by a brilliant debut author.

THE ZERO MARGINAL COST SOCIETY

THE INTERNET OF THINGS, THE COLLABORATIVE COMMONS, AND THE ECLIPSE OF CAPITALISM

Macmillan Argues that the Internet of Things, which is making goods and services essentially free due to a nearly zero marginal cost, is causing corporate profits to dry up, property rights to weaken, and the mindset of scarcity to give way to the possibility of abundance.