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Biochar Balwant Singh 2017-03-01 Interest in biochar among soil and environment researchers has increased dramatically over the past decade. Biochar initially attracted attention for its potential to improve soil fertility and to uncouple the carbon cycle, by storing carbon from the atmosphere in a form that can remain stable for hundreds to thousands of years. Later it was found that biochar had applications in environmental and water science, mining, microbial ecology and other fields. Beneficial effects of biochar and its environmental applications cannot be fully realised unless the chemical, physical, structural and surface properties of biochar are known. Currently many of the analytical procedures used for biochar analysis are not well defined, which makes it difficult to choose the right biochar for an intended use and to compare the existing data for biochars. Also, in some instances the use of inappropriate procedures has led to erroneous or inaccurate values for biochars in the scientific literature. Biochar: A Guide to Analytical Methods fills this gap and provides procedures and guidelines for routine and advanced characterisation of biochars. Written by experts, each chapter provides background to a technique or procedure, a stepwise guide to analyses, and includes data for biochars made from a range of feedstocks common to all presented methods. Discussion about the unique features, advantages and disadvantages of a particular technique is an explicit focus of this handbook for biochar analyses. Biochar is primarily intended for researchers, postgraduate students and practitioners who require knowledge of biochar properties. It will also serve as an important resource for researchers, industry and regulatory agencies dealing with biochar.

The Economics of Industrial Innovation Christopher Freeman 1997 Massive technological development over the last ten years has changed the face of industry dramatically. This updated edition explores the debates surrounding macroeconomics in a stimulating analysis of the impact of globalisation on industrial change.

The Sources of Innovation Eric von Hippel 1988 It has long been assumed that product innovations are usually developed by product manufacturers, but this book shows that innovation occurs in different places in different industries.

Biomass: Sustainable Energy Resource Hannah Seabrook 2016-05-24 Biomass has emerged as one of the most prominent sustainable energy resource in the past few decades. It refers to the waste produced by plant or animal sources, and is a renewable source for fuel production. Included in this book, is a detailed explanation of the various concepts such as methods of growing energy crops, biomass consumption technology, and biofuel production and conversion. This book traces the progress of this field and highlights some of its key concepts and applications. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

Challenges and Strategies of Dryland Agriculture S.C. Rao 2011-01-01 The world has made remarkable progress in maintaining adequate food supplies during the past quarter century by introducing yield-increasing technologies such as better genetics, crop protection products, and more efficient use of fertilizers and irrigations. Far more people depend on irrigation in the modern world than during the times of ancient Sumeria. The spread of irrigation has been the key factor in increasing global crop yields. But future scarcity present the single biggest threat to future food production. The shift of water from agriculture to the growing cities and industry almost certainly will impact global food production. This means that dryland agriculture will be increasingly important in meeting food requirement for the growing population. Advances in plant genetics and agronomic conservation technologies, when considered in concert, continue to provide the greatest opportunities to achieve sustainability and profitability in dryland agriculture and will continue to be the focus of the ARS research program. The ARS is please to join the crop Science Society of America and international center for Agriculture Research in Dry Areas (ICARDA) in sponsoring a symposium "Challenges and strategies for Dryland Agriculture" at the Trisocieties Annual Meeting in November 2002 at Indianapolis, IN. This special publication contains an impressive series of paper by international group of experts on dryland agricultural production, conservation, and policy. The principles, philosophies, and technologies presented in this publication have the potential to contribute to improve food security and livelihoods for the people in dryland regions of the world.

Sustainable Sugarcane Production Priyanka Singh 2018-03-21 The sugarcane crop, one of the most important crops commercially grown in about 115 countries of the world, faces a number of problems, such as low cane productivity, biotic and abiotic stresses, high cost of cultivation, postharvest losses, and low sugar recovery. This volume addresses these issues and provides a comprehensive account of the major advancements in sugarcane research. The book is compilation of recent achievements in sugarcane development and cultivation. It covers a number of improvements made in cane and sugar yield using both conventional and new biotechnological approaches by agricultural scientists and researchers. The comprehensive coverage includes sustainable sugarcane cultivation, development, and management of sugarcane production, covering farming and biotechnology, entomology, pathology, breeding, physiology, biotechnology, agronomy, seed production, and more. It also presents research on modern crop production methods in a comprehensive and easily understood manner. With chapters from expert researchers from internationally renowned institutes (primarily in India), the volume presents the latest information from the literature at the international level to make it usable to many agroecological regions of the world. It will be a valuable resource for agronomists, breeders, plant physiologists, farmers, and students of agricultural sciences.

Environmental Footprints of Packaging Subramanian Senthilkannan Muthu 2015-11-06 This book presents detailed discussions concerning the environmental footprints of various packaging systems and materials, life cycle assessments of packaging, sustainable design of various packaging systems and materials, as well as the biodegradation of various packaging materials.

Coal--typology, Chemistry, Physics, Constitution Dirk Willem Krevelen 1981

Being Wise with Waste 2010

River Cottage Veg Hugh Fearnley-Whittingstall 2013-05-14 A comprehensive collection of 200+ recipes that embrace vegetarian cuisine as the centerpiece of a meal, from the leading food authority behind the critically acclaimed River Cottage series. Pioneering champion of sustainable foods Hugh Fearnley-Whittingstall embraces all manner of vegetables in his latest cookbook, an inventive offering of more than two hundred vegetable-based recipes, including more than sixty vegan recipes. Having undergone a revolution in his personal eating habits, Fearnley-Whittingstall changed his culinary focus from meat to vegetables, and now passionately shares the joys of vegetable-centric food with recipes such as Kale and Mushroom Lasagna; Herby, Peanuttty, Noodly Salad; and Winter Stir-Fry with Chinese Five-Spice. In this lavishly illustrated cookbook, you'll find handy weeknight one-pot meals, pure and simple raw dishes, and hearty salads as well as a chapter of meze and tapas dishes to mix and match. A genuine love of vegetables—from delicate springtime asparagus to wintry root vegetables—permeates River Cottage Veg, making this book an inspiring new source for committed vegetarians and any conscientious cook looking to expand their vegetable

repertoire.

Energy Technology Perspectives 2010 International Energy Agency 2010 This 2010 edition of Energy Technology Perspectives examines the extent to which an energy technology revolution is taking place, the key technologies that are emerging, the costs and benefits of these technologies, and policies needed to foster their use. ETP 2010 presents updated scenarios from the present to 2050 that show which new technologies will be most important in key sectors and in different regions of the world. It highlights the importance of finance to achieve change, examines the implications of the scenarios for energy security and looks at how to accelerate the deployment of low-carbon technologies in major developing countries. It presents roadmaps and transition pathways for spurring deployment of the most important clean technologies and for overcoming existing barriers. With extensive data, projections and analysis, Energy Technology Perspectives 2010 provides decision makers with the detailed information and insights needed to accelerate the switch to a more secure, low-carbon energy future.

The Biochar Revolution Paul Taylor 2010 Black is the new Green! How to transform agriculture and the environment. A friendly, informative inspiring and break-through reference guide for anyone interested in biochar or concerned about environmental issues.

The Secret Life of Cows Rosamund Young 2017-10-03 ****A Sunday Times bestseller**** **A Times Book of the Year 2017** WITH A FOREWORD BY ALAN BENNETT 'A lovely, thoughtful little book about the intelligence of cows.' James Rebanks, author of The Shepherd's Life Cows are as varied as people. They can be highly intelligent or slow to understand, vain, considerate, proud, shy or inventive. Although much of a cow's day is spent eating, they always find time for extra-curricular activities such as babysitting, playing hide and seek, blackberry-picking or fighting a tree. This is an affectionate record of a hitherto secret world.

Microfinance Handbook Joanna Ledgerwood 1998-12-01 The purpose of the 'Microfinance Handbook' is to bring together in a single source guiding principles and tools that will promote sustainable microfinance and create viable institutions.

The Carbon War Jeremy K. Leggett 2001 Offers an inside look at the politics and science surrounding global warming; efforts by the oil, gas, and automobile industries to refute environmental research findings; and international attempts to pass environmental legislation.

Geotherapy Thomas J. Goreau 2014-12-19 A Practical, Get-Your-Hands-in-the-Soil Manual Global climate change, increasing pollution, and continued rapid population growth is wreaking havoc on the planet. Stabilizing the environment at safe levels requires a large-scale restoration of damaged ecosystems. Geotherapy: Innovative Methods of Soil Fertility Restoration, Carbon Sequestration, and

Biochar Systems for Smallholders in Developing Countries Sebastian B. Scholz 2014-06-23 This report offers a review of what is known about opportunities and risks of biochar systems in developing countries. Its aim is to fill in critical knowledge gaps between the biochar research community and development practitioners on the ground.

Code of Practice for Agricultural Use of Sewage Sludge 1989 Later editions are available from the Department for the Environment, Transport and the Regions (and its successor departments) but ISBN 0117522562 is still available from TSO's on-demand publishing service

NoSQL with MongoDB in 24 Hours, Sams Teach Yourself Brad Dayley 2014-08-21 NoSQL database usage is growing at a stunning 50% per year, as organizations discover NoSQL's potential to address even the most challenging Big Data and real-time database problems. Every NoSQL database is different, but one is the most popular by far: MongoDB. Now, in just 24 lessons of one hour or less, you can learn how to leverage MongoDB's immense power. Each short, easy lesson builds on all that's come before, teaching NoSQL concepts and MongoDB techniques from the ground up. Sams Teach Yourself NoSQL with MongoDB in 24 Hours covers all this, and much more: Learning how NoSQL is different, when to use it, and when to use traditional RDBMSes instead Designing and implementing MongoDB databases of diverse types and sizes Storing and interacting with data via Java, PHP, Python, and Node.js/Mongoose Choosing the right NoSQL distribution model for your application Installing and configuring MongoDB Designing MongoDB data models, including collections, indexes, and GridFS Balancing consistency, performance, and durability Leveraging the immense power of Map-Reduce Administering, monitoring, securing, backing up, and repairing MongoDB databases Mastering advanced techniques such as sharding and replication Optimizing performance

New Zealand Science Sally Davenport 1994

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.

The European Community's Environmental Policy 1983

The Oxford Handbook of Innovation Jan Fagerberg 2006-01-19 This handbook provides academics and students with a comprehensive and holistic understanding of the phenomenon of innovation.

Operations Management Nigel Slack 2019-04-22 Operations management is important, exciting, challenging ... and everywhere you look! Important, because it enables organisations to provide services and products that we all need Exciting, because it is central to constant changes in customer preference, networks of supply and demand, and developments in technology Challenging, because solutions must be financially sound, resource-efficient, as well as environmentally and socially responsible And everywhere, because in our daily lives, whether at work or at home, we all experience and manage processes and operations. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

The Booklovers Reading Club Hand-Book to Accompany the Reading Course Entitled, Child Study Frederic W. Speirs 2019-03-13 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

New Headway: Upper-Intermediate Third Edition: Workbook (Without Key) Liz Soars 2005-05-05 Clear focus on grammar Balanced, integrated-skills syllabus Real-world speaking skills - Everyday English, Spoken English, Music of English Full teacher support - resources, photocopyables, tests and more - in print and online Hot words and Hot verbs present and practise vital collocations

The Third Plate Dan Barber 2014-09-11 'A must-read for anyone interested in food and the future' Yotam Ottolenghi Based on ten years of surveying farming communities around the world, top New York chef Dan Barber's The Third Plate offers a radical new way of thinking about food that will heal the land and taste incredible. The 'first plate' was a classic meal centred on a large cut of meat with few vegetables. On the

'second plate', championed by the farm-to-table movement, meat is free-range and vegetables are locally sourced. It's better-tasting, and better for the planet, but the second plate's architecture is identical to that of the first. It, too, disrupts ecological balances, causing soil depletion and nutrient loss - it just isn't a sustainable way to farm or eat. The 'third plate' offers a solution: an integrated system of vegetable, cereal and livestock production that is fully supported - in fact, dictated - by what we choose to cook for dinner. The Third Plate is where good farming and good food intersect.

Managing Agricultural Residues Paul W. Unger 1994-03-16 Many agriculturalists, conservationists, and environmentalists are stressing the importance of sustaining soil productivity so that future generations will have adequate productive land on which to produce food. One significant factor affecting soil productivity is the retention of crop residues on the surface of the soil to help control soil erosion. This book provides a review of the vast amount of literature on the subject, condensing the findings in a comprehensive, easy-to-understand manner. It focuses on topics such as erosion control, crop production in systems involving surface residues, residue use for fuel and animal feed, plant pathogens, insects, soil properties, and the economics of conservation tillage.

The Practice of Strategic Environmental Assessment Riki Therivel 2013-10-11 The practical application of strategic environmental assessment (SEA) is becoming increasingly common. A growing number of SEAs are being undertaken around the world, and several countries have issued guidance on how these should be carried out. However, few countries as yet have formal SEA regulations, and few completed SEAs have demonstrated all the elements of current best practice. The Practice of Strategic Environmental Assessment aims to provide a unique analysis of SEAs which have been undertaken, drawing on a variety of methods and circumstances to illustrate how best practice can be achieved, and providing inspiration for those considering studying, commissioning or carrying out an SEA. Part I sets the rest of the book in context, giving a review of international SEA guidance and regulations, and discussing models and methodologies. Part II then analyses a comprehensive set of case studies from countries which have extensive experience in SEA, or which provide particularly good examples. The case studies are discussed in three sections - sectoral SEAs, SEAs of land-use plans and SEAs of policies - and provide examples of different scales and approaches, as well as country-specific experience. The final chapter draws out some constraints to effective SEA, as well as positive themes which show how effective SEA can contribute to wider environmental assessment. Written by an international team of SEA practitioners and experts, this volume will be of particular use to students of environmental policy and management, environmental consultants, local authorities, policy-makers and anyone involved in the commissioning, process or review of SEAs.

Urban Agriculture Europe Frank Lohrberg 2015-12-01 Is it possible to turn inner-city horticulture into urban farming that provides solutions for the food requirements of a constantly growing world population and works at the same time as a viable business model? 'Urban Agriculture Europe' is the first comprehensive, interdisciplinary publication that addresses urban agriculture in Europe. Apart from well-known examples of food gardening in the midst of metropolises, it also studies activities in smaller towns, agriculture on the urban periphery, as well as experiences in eastern and southern Europe. The contributions analyze various facets of urban agriculture, from economic, spatial, and ecological aspects to questions of business chances, stakeholders' roles, and policy recommendations. Case studies from Barcelona, Milan, Sofia, Warsaw, Dublin, Lausanne, and Aachen provide a comparative study of European practice. Stakeholder's statements and a glossary of key words supplement the volume.

Thermochemical Processing of Biomass A. V. Bridgwater 1984

Forecasting and Management of Technology Alan L. Porter 1991 Consistently practical in its coverage, the book discusses general issues related to forecasting and management; introduces a variety of methods, and shows how to apply these methods to significant issues in managing technological development. With numerous exhibits, case studies and exercises throughout, it requires only basic mathematics and includes a special technology forecasting TOOLKIT for the IBM and compatibles, along with full instructions for installing and running the program.

Biochar in European Soils and Agriculture Simon Shackley 2016-02-22 This user-friendly book introduces biochar to potential users in the professional sphere. It de-mystifies the scientific, engineering and managerial issues surrounding biochar for the benefit of audiences including policy makers, landowners and farmers, land use, agricultural and environmental managers and consultants, industry and lobby groups and NGOs. The book reviews state-of-the-art knowledge in an approachable way for the non-scientist, covering all aspects of biochar production, soil science, agriculture, environmental impacts, economics, law and regulation and climate change policy. Chapters provide 'hands-on' practical information, including how to evaluate biochar and understand what it is doing when added to the soil, how to combine biochar with other soil amendments (such as manure and composts) to achieve desired outcomes, and how to ensure safe and effective use. The authors also present research findings from the first coordinated European biochar field trial and summarize European field trial data. Explanatory boxes, infographics and concise summaries of key concepts are included throughout to make the subject more understandable and approachable.

Hunger and poverty: the role of biodiversity

From the Veg Patch Kathy Slack 2021-06-10 - One of delicious magazine's top cookbooks of 2021 'Not only does Kathy Slack write beautifully, but she also takes stunning photographs with a strong sense of place, light dappling across the pages.' - delicious 'What a lovely first cookbook this is: a fresh and tempting celebration of the joys of growing your own, and cooking what you grow. And Kathy writes beautifully.' - Hugh Fearnley-Whittingstall 'This book is a seasonal treat. I feel transported into nature when I read Kathy's delightful recipes...' - Thomasina Miers 'A gentle, useful book full of inspiring, delicious recipes and guidance for kitchen gardeners. Kathy writes with a poetic, infectious wonderment at the life-enhancing magic of growing and cooking vegetables.' - Rosie Birkett 'A book full of promise.' - Gill Meller - Everyday recipes that make vegetables the star of the show Kathy Slack takes us through a year in her veg patch in this celebration of her ten favourite things to grow and eat. Peas, lettuce, courgettes, beans, tomatoes, beetroot, squash, apples, kale and leeks; all simple to grow, affordable and readily available to anyone without a growing space of their own. Most recipes are vegetarian, some use meat or fish, but every dish makes veg the star of the plate. This is food for everyone and every day. Here are recipes to herald the start of spring (Pea, Feta and Mint Frittata) to enjoy on a sweltering summer day (A Tomato-lovers Salad with Anchovy Breadcrumbs) to warm you up as the nights start to draw in (Pumpkin Tikka Masala) and to hunker down with in the depths of winter (Leek, Chestnut and Cider Crumble). Whether you grow your own vegetables at home or buy them at the supermarket, these beautiful recipes celebrate ingredients at their very best and are a joy to cook and eat.

Solar Fuel Generation Yatendra S. Chaudhary 2017-01-20 As the search for renewable sources of energy grows more urgent, more and more attention is focusing on the blueprint offered by biological photosynthesis for translating the energy of our Sun into energy rich molecules like H₂ and carbohydrates, commonly known as "solar fuels." These solar fuels have enormous potential to store high densities of energy in the form of chemical bonds as well as being transportable. This book offers a complete overview of the promising approaches to solar fuel generation, including the direct pathways of solar H₂ generation and CO₂ photocatalytic reduction. Solar Fuel Generation is an invaluable tool for graduate students and researchers (especially chemists, physicists, and material scientists) working in this field.

Fertiliser Manual Rb209 Great Britain. Department for Environment, Food & Rural Affairs 2010 Formerly entitled, the "Fertiliser Recommendations for Agricultural and Horticultural Crops", the 8th edition has now been renamed the "Fertiliser Manual" (ISBN 9780112432869). Farming is an important feature of our way of life. It shapes the landscape we enjoy, provides much of our food and is a vital part of maintaining and improving a healthy, thriving and diverse natural environment. The agricultural sector faces a number of challenges. Demand for crops will increase as the global population rises. However, agricultural practices including the use of fertilisers have the potential to damage the natural environment by polluting water courses, releasing greenhouse gases and ammonia to the air and by damaging the soil. This manual aims to help farmers and land managers better assess the fertiliser required for the range of crops they plan to grow, by suggesting what level of nutrients are required to provide the best financial return for the farm business. The manual aims to help ensure that proper account is

taken of both mineral fertilisers and other sources of nutrients such as manures and slurries.

Advances in Thermal Energy Storage Systems Luisa F. Cabeza 2014-10-31 Thermal energy storage (TES) technologies store thermal energy (both heat and cold) for later use as required, rather than at the time of production. They are therefore important counterparts to various intermittent renewable energy generation methods and also provide a way of valorising waste process heat and reducing the energy demand of buildings. This book provides an authoritative overview of this key area. Part one reviews sensible heat storage technologies. Part two covers latent and thermochemical heat storage respectively. The final section addresses applications in heating and energy systems. Reviews sensible heat storage technologies, including the use of water, molten salts, concrete and boreholes Describes latent heat storage systems and thermochemical heat storage Includes information on the monitoring and control of thermal energy storage systems, and considers their applications in residential buildings, power plants and industry

Syngas from Waste Luis Puigjaner 2011-07-15 Syngas from Waste presents the most recent concepts, methods and techniques for the preliminary design of a promising emerging technology: production of clean syngas from waste materials. An in-depth account is given of the steps necessary to achieve the optimum design and up-to-date tools are presented to support the designer's decision-making tasks: modelling, simulation and optimization. Numerous illustrations and tables are included to facilitate the reader's understanding, as well as suggestions for further reading. The text is complemented with practical examples and industrial applications ranging from clean power generation to complex combined heat and power systems and high purity hydrogen for use in fuel cells. Syngas from Waste contains high-quality contributions from leading experts in the field. It is intended for academics at MSc or PhD level, researchers and industry practitioners in syngas production and applications, who are involved in the design, retrofit design and evaluation activities of alternative scenarios. It contains valuable teaching material for lecturers and provides industry professionals with the know-how to evaluate and improve existing installations or even to design a new one.

Applications of Biochar for Environmental Safety Ahmed Abdelhafez 2020-07-22 Biochar is a carbon-rich material produced from the pyrolysis of organic materials from agricultural and forestry biomass at a relatively low temperature in the absence of oxygen. As such, it has potential for solving many agricultural and environmental problems. This book is divided into five sections: "Introduction," "Production and Legislation of Biochar," "Applications of Biochar for Soil Fertility Improvement," "Role of Biochar for Soil Remediation and Ameliorating Salinity Effects" and "Applications of Biochar for Water Treatment." Chapters address topics such as the pros and cons of biochar, its production, and its role in remediating and treating contaminated soils and water.