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along the Historical Silk Road Role of Library Resources for Higher Education in the Digital Era Chamomile Updates on Organic Farming Handbook Of Climate Change And Agroecosystems - Climate Change And Farming System Planning In Africa And South Asia: Agmip Stakeholder-driven Research (In 2 Parts) Water for Food Security The Global Green Economy Leading to Sustainability: A Multidisciplinary Approach Civil Society and Pakistan's Economy Islam, Culture, and Marriage Consent Sustainable Plant Foods Sustainable Soil and Land Management and Climate Change *Dr. Yaduvir Singh Bhaswati Bhattacharya Ashfaq Husain Lalit Chandra Saikia James E. Ayars Xiaobo Chen Hasan Dudu Alex Khang Muhammad Ashraf Alam Liang Emlyn Yang Shaik, Mazhar Hussain Moumita Das Cynthia Rosenzweig Claudia Ringler Dr. Pooja Srivastava, Dr. Anchal Rastogi, Dr. Pooja Bhatia , Ms. Samiksha Gupta, Ms. Ragini Dixit Fayyaz Baqir Hafsa Pirzada Sajad Ahmad Wani Shah Fahad*

based on oral history fiction fascinating intellectual gossip and records of the coffee board of india this study is a multi sited ethnography of the indian coffee house possibly the world s first coffee house chain it offers a critical analysis of adda informal meetings of the educated middle class in allahabad calcutta and delhi the coffee house became the new socio intellectual nerve centre replacing the neighbourhood tea shops and creating an entirely different social space this book will have line drawings and cartoons as well as archival photographs

microirrigation for crop production design operation and management second edition volume thirteen is the latest release in this go to foundational resource for the basics of engineering and the science of the design and operation of microirrigation systems this new edition includes novel methods for measurement and estimation of evapotranspiration resource efficient microirrigation design and operation advanced irrigation scheduling methods and tools novel methods and technology of microirrigation automation monitoring and control updates in crop salinity tolerance and leaching practices variable rate irrigation updates on the use of biological effluents and chemicals and pesticides to include safety and regulatory concerns the revised book will provide an understanding on the basic science needed to comprehend systems design operation management maintenance monitoring and performance evaluation presents a

detailed explanation and examples of systems design operation and management specific to the latest types of microirrigation systems as well as sample irrigation schedules assesses the proper use of irrigation technology and its effects to increase efficiency and crop productivity includes illustrations of design options and charts of systems typologies

this collection addresses the pressing needs for sustainable technologies with reduced energy consumption and environmental pollutions and the development and application of alternative sustainable energy to maintain a green environment and efficient and long lasting energy supply contributors represent both industry and academia and focus on new and efficient energy technologies including innovative ore beneficiation smelting technologies and recycling and waste heat recovery as well as emerging novel energy solutions the volume also covers a broad range of mature and new technological aspects of sustainable energy ecosystems processes that improve energy efficiency reduce thermal emissions and reduce carbon dioxide and other greenhouse emissions authors also explore the valorization of materials and their embodied energy including byproducts or coproducts from ferrous and nonferrous industries batteries electronics and other complex secondary materials

water policy is an important topic on the agenda of the international community and efficiency and equity in the allocation of water have emerged as important factors to be considered water pricing can be used to mitigate both the quantity and quality dimensions of water scarcity this paper reviews partial equilibrium models and general equilibrium models that are relevant to irrigation water management issues the most widely discussed issues in these models are water markets and water pricing the interrelationships between economic cultural social and political aspects that are related to water policy make it difficult to provide a comprehensive policy analysis general equilibrium models of irrigation water management allow incorporation of both the irrigation sector and the other sectors in the economy and analysis of policies affecting each of them and the interaction between them in addition to being able to address sector and household specifications production factors time horizon pricing policies and institutions such as water markets general equilibrium models allow the analysis of the impact of water policies on equity and poverty alleviation the authors conclude that although there has

been a significant increase in efforts to analyze water related problems analytical and empirical research in the field is still deficient and more effort is needed to address them

in recent years the application of artificial intelligence ai and internet of things iot technologies in smart healthcare has been increasing we are approaching a world where connected smart devices tell people when they need to visit a doctor because these devices will be able to detect health problems and discover symptoms of illness that may need medical care ai collaborative iot technologies can help medical professionals with decision making these technologies can also help develop a sustainable and smart healthcare system ai and iot technology and applications for smart healthcare systems helps readers understand complex scientific topics in a simple and accessible way it introduces the world of ai collaborative iot physics explaining how this technology behaves at the smallest level and how this can revolutionize healthcare the book shows how iot technology and ai can work together to make computers more powerful and capable of solving complex problems in the healthcare sector exploring the effect of ai collaborative technology on iot technologies the book discusses how iot can benefit from ai algorithms to enable machines to learn make decisions and process information more efficiently because smart machines create more perceptive devices and systems the application of this technology raises important ethical questions about privacy security and the responsible development of healthcare iot technology which this book covers the book also provides insight into the potential applications of these technologies not only in the healthcare industry but also in related fields such as smart transportation smart manufacturing and smart cities

how does a solar cell work how efficient can it be why do intricate patterns of metal lines decorate the surface of a solar module how are the modules arranged in a solar farm how can sunlight be stored during the day so that it can be used at night and how can a lifetime of more than 25 years be ensured in solar modules despite the exposure to extreme patterns of weather how do emerging machine learning techniques assess the health of a solar farm this practical book will answer all these questions and much more written in a conversational style and with over one hundred homework problems this book offers an end to end perspective connecting

the multi disciplinary and multi scale physical phenomena of electron photon interaction at the molecular level to the design of kilometers long solar farms a new conceptual framework explains each concept in a simple crystal clear form the novel use of thermodynamics not only determines the ultimate conversion efficiencies of the various solar cells proposed over the years but also identifies the measurement artifacts and establishes practical limits by correlating the degradation modes extensive coverage of conceptual techniques already developed in other fields further inspire innovative designs of solar farms this book will not only help you to make a solar cell but it will help you make a solar cell better to trace and reclaim the photons that would have been lost otherwise collaborations across multiple disciplines make photovoltaics real and given the concern about reducing the overall cost of solar energy this interdisciplinary book is essential reading for anyone interested in photovoltaic technology

this open access book discusses socio environmental interactions in the middle to late holocene covering specific areas along the ancient silk road regions over twenty chapters provide insight into this topic from various disciplinary angles and perspectives ranging from archaeology paleoclimatology antiquity historical geography agriculture carving art and literacy the silk road is a modern concept for an ancient network of trade routes that for centuries facilitated and intensified processes of cultural interaction and goods exchange between west china central asia the middle east and the mediterranean coherent patterns and synchronous events in history suggest possible links between social upheaval resource utilization and climate or environment forces along the silk road and in a broader area post graduates in studying will benefit from this work as well as it will stimulate young researchers to further explore the role played by the environment in long term socio cultural changes

the digital transformation of academic libraries is redefining how knowledge is accessed shared and preserved directly shaping the quality and reach of higher education by integrating emerging technologies such as artificial intelligence cloud systems and big data analytics libraries are expanding opportunities for research remote learning and global collaboration this evolution not only enhances academic performance and innovation but also raises critical questions about digital equity cybersecurity and long term preservation of

scholarly resources as libraries adapt to new educational models they play a pivotal role in fostering digital literacy supporting open access and ensuring that information remains a powerful driver of societal progress role of library resources for higher education in the digital era provides a comprehensive understanding of how library resources are evolving to meet the demands of modern academia it explores digital transformation in libraries by examining the integration of digital tools and highlighting how these advancements are reshaping access to knowledge and research methodologies covering topics such as artificial intelligence knowledge sharing and user interaction this book is an excellent resource for librarians higher education faculty and researchers it professionals and more

in use as a medicinal plant since time immemorial in europe and the middle east chamomile is gaining popularity in the americas australia and asia the spectrum of disease conditions in which it is used in traditional medicine systems is quite simply mind boggling there is without a doubt a growing demand for this plant and therefore a grow

this comprehensive guidebook will help you learn about the dynamic realm of organic farming where sustainable agricultural practices converge with innovative methodologies dig into fundamental procedures for encouraging nutrient dense soil cultivating a diverse spectrum of organic harvests and implementing effective pest management strategies devoid of synthetic chemicals this book provides seasoned agriculturalists and aspiring horticulturists alike with essential tools and empirical insights to foster farms that are strong and resilient with an emphasis on principles rooted in biodiversity and ecological equilibrium the topics cover the intricacies of composting methods for the best crop rotation integrated pest management strategies and the synergistic incorporation of livestock for sustainable land stewardship this compendium explains how organic farming methods can produce health promoting harvests and uphold the tenets of a sustainable future whether driven by the pursuit of improved food quality strengthening local ecosystems or reducing environmental footprints the use of organic methods to unlock the latent potential of agricultural landscapes and cultivate a flourishing ecosystem with ecological integrity and long term viability takes advantage of this pivotal interval in the evolution toward sustainable agriculture

this two part handbook focuses on the work that the agricultural model intercomparison and improvement project agmip accomplished using a new method the agmip regional integrated assessment protocol in sub saharan africa ssa and south asia sa with funding from the uk department for international development through this research agmip substantially improves the characterization and understanding of food security in ssa and sa and how its affected by climate variability and change the chapters in this handbook demonstrate how agmip has enhanced the capacity of developing country researchers and stakeholders to work together exploring and prioritizing adaptation to current and future climate stresses part 1 describes regional integrated assessment methods and analyses while part 2 presents the outcomes of farming system studies the entire volume shows how agmip has established as a public good protocols for regional integrated assessments that improve the capability of developing countries to address climate change challenges related link s

pakistan s water management is at a critical watershed the world s seventh most populous country faces serious challenges that will require improvements in both the hardware and software of agricultural water management water shortages are growing rapidly as a result of growing demand across all water using sectors rapid population growth from 175 million people in 2010 to an estimated 236 million by 2030 and 280 million by 2050 and international food price spikes create pressure to increase agricultural production of staples but demand for cash crops is also growing rapidly including for cotton fruit trees and tobacco to raise rural incomes and generate rural employment to absorb the relatively young rapidly growing rural population water management is also increasingly affected by climate change including an increased number of flood and drought events and growing energy shortages which affect how water is being sourced and used last but not least pakistan s political situation is fragile which has reduced incentives to invest in enhanced agricultural water and other technologies how pakistan addresses these challenges will be decisive for its population s future water and food security for economic growth and for environmental sustainability it will also affect water and food outcomes globally due to the interconnectedness of global food trade this book was published as a special issue of water international

the global green economy leading to sustainability a multidisciplinary approach which we edited is a book in which all of the authors contributed to bring new insights into socioeconomic trends we have concentrated on the most recent market trends in this book defining various fields such as green hrn green finance accounting environmental concern green production and brand management values and ethics consumer buying behaviour towards green products resource management sustainable business practices technology and innovation challenges and barriers social and human sustainability case studies and best practices interdisciplinary approaches by inviting academia

this book analyses the paradoxes of pakistan s economy meritocratic domestic policy and the role of the state and the civil society it argues that the transition in the county s foreign policy from geo politics to geo economic depends on a fundamental domestic policy transition from kleptocracy to meritocracy civil society and pakistan s economy discusses how the prevalence of rent seeking practices has undermined merit based practices by increasing the cost of doing business and converting public loss into private profit by awarding inappropriate subsidies and imposing regressive taxes the analyses are supported by describing the instruments and mechanisms used for rent seeking practices and the creation of public awareness of options available to change these practices through citizen s action and civil society engagement the book also shows the path of transformation and the role of participation and argues that aspiring for and capturing power is not the only way to transform pakistan a novel analysis depicting macro micro linkages of encroachment of socio economic space by the power elites and effective strategies used for its reappropriation by the people the book will be of interest to academics researching south asian studies in particular south asian economics and politics

this book presents an empirical examination of consent seeking among pashtun muslims in the pakistani province of khyber pakhtunkhwa kpk to determine whether cultural norms and beliefs have largely come to diverge from the principles of consent in islamic law and jurisprudence is culture part of the inevitable decay to which max müller says every religion is exposed or if rephrased in terms of the research encapsulated within this book are cultural beliefs and practises the inevitable decay to which islam has been exposed in

muslim societies drawing on interviews with muslims in pakistan and australia the research broadly broaches questions around the rights of women in islam and contributes to a wider understanding of muslim social cultural and religious practices in both muslim majority nations and diaspora communities the author disentangles cultural practices from both religious and universal legal principles demonstrating how consent seeking in pashtun culture generally does not reflect the spirit or the intent of consent as described in hanaf law and jurisprudence this research will be of interest to students and scholars across sociology anthropology socio legal studies and law with a focus on islamically justified law reform in muslim nation states

sustainable plant foods a scientific approach to alternative food sources delves into plant based nutrition and its transformative potential for human health and the environment by addressing the detrimental effects of animal agriculture on well being and ecological balance the book advocates for a shift towards plant based alternatives it emphasizes the importance of sustainable diets for improving human health and nutrition while contributing to a more sustainable planet the book explores new developments and challenges in plant based alternatives it covers the nutritional benefits sensory appeal of underutilized fruits vegetables legumes and strategies for developing clean label alternatives to eggs meat cheese and milk addresses the nutritional value and health benefits of plant based foods delivers remedies to address frequent sustainability issues along a plant based food supply chain promotes extrusion muscle fiber simulation fermentation and scaffolding to develop clean label plant based alternatives to meat and dairy proteins highlights underutilized fruits vegetables legumes cereals and novel trends in nutrition and sensory acceptance discusses sustainable and innovative strategies for the utilization of plant based food waste

the third volume of sustainable soil and land management and climate change presents a complete overview of plant soil interactions in a climate affected by greenhouse gas emissions and organic carbon it presents approaches and managements strategies for the stabilization of soil organic matter the latest in the respected footprints of climate variability on plant diversity series this book enhances the reader s knowledge of the preservation of organic matter through microbial approaches as well as through soil and plant

interactions written by teams of specialist scientists it presents research outcomes practical applications and future challenges for this important field features presents microbial tactics for the alleviation of potentially toxic elements in agricultural soils and for reclaiming saline soil provides an overview of scientific investigations into greenhouse gas emissions outlines priming techniques developed in response to a changing climate this book is written for students of agronomy soil science and the environmental sciences as well as researchers interested in management technologies to improve soil fertility

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