

Mind The Gap Agricultural Science Study Guide Ebook Cmeal

This new, fully revised edition aims to serve as a guide for agricultural research scientists and other practitioners in writing papers for publication. It also looks to provide a resource manual for training courses in scientific writing. There are three new chapters on reporting statistical results, communicating science to non-scientific audiences and electronic publishing. In addition, the original chapters have all been rewritten to reflect current developments and to make the content more complete and easily comprehensible. The book "Information Generation and its use by Agricultural Scientists — A Critical Study" dealt exhaustively about "Information" in general and "Agricultural Information" in particular. It provides panoramic view of agricultural information, its nature, generation and use by agricultural scientists. The impact of different important factors like Cadres, Age, Sex, Educational qualification, Professional trainings, Working environment, Work experience, Discipline of Research, First appointment, and Member-ship to scientific societies/association etc of agricultural scientists over their information productivity and use of information have been studied in depth and presented in lucid manners. The whole book is spanned in five chapters. While the chapter 1st and 2nd are devoted to conceptual aspects of information generation and use in the science of agriculture, chapter 3rd described the objectives and methodology. Chapter 4th presents the data analysis and findings in details with tables and graphs, the 5th and final chapter covers summary and conclusions of the study. Besides, a bibliography on the

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subject of study is also provided for further reading and reference.

A new approach to water-resource for researchers, professionals and graduate students, focusing on global sustainability and socio-ecological resilience to change. This timely collection of 15 original essays written by expert scientists the world over addresses the relationships between human population growth, the need to increase food supplies to feed the world population, and the chances for avoiding the extinction of a major proportion of the world's plant and animal species that collectively makes our survival on Earth possible. These relationships are highly intertwined, and changes in each of them steadily decrease humankind's chances to achieve environmental stability on our fragile planet. The world population is projected to be nine to ten billion by 2050, signaling the need to increase world food production by more than 70 percent on the same amount of land currently under production—and this without further damaging our fragile environment. The essays in this collection, written by experts for laypersons, present the problems we face with clarity and assess our prospects for solving them, calling for action but holding out viable solutions.

This work presents the findings of an extensive study on the state-of-the-art regarding the problem of food waste in Belarus, Estonia, Germany, Latvia, Lithuania, Poland and Sweden. The results show that the problem of food waste can be found at different levels in each country and that our knowledge of it is limited by the current lack of studies in the area. The problem is primarily due to food waste generated by the manufacturing sector, mostly in the form of unused or inefficiently used by-products, as well as on a share of food thrown away by households that is still suitable for human consumption. The main reduction/prevention method, applied

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across the countries, is food donation; the remaining methods are the same ones used for biodegradable waste in the respective countries. The findings gathered in this study show a number of potential measures/methods for sustainable food waste management, which may be considered in future works in order to reduce the amounts of food waste generated in each of the aforementioned countries.

This book is the outcome of more than 20 years of experience of the author in teaching and research field. The wider scope and coverage of the book will help not only the students/ researchers/professionals in the field of agriculture and allied disciplines, but also the researchers and practitioners in other fields. Written in simple and lucid language, the book would appeal to all those who are meant to be benefitted out of it. All efforts have been made to present "RESEARCH", its meaning, intention and usefulness. The book reflects current methodological techniques used in interdisciplinary research, as illustrated with many relevant worked out examples. Designing of research programme, selection of variables, collection of data and their analysis to interpret the data are discussed extensively. Statistical tools are complemented with real-life examples, making the otherwise complicated subject like statistics seem simpler. Attempts have been made to demonstrate how a user can solve the problems using simple computer-oriented programme. Emphasis is placed not only on solving the problems in various fields but also on drawing inferences from the problems. The importance of instruments and computers in research processes and statistical analyses along with their misuse/incorrect use is also discussed to make the user aware about the correct use of specific technique. In all the chapters, theories are combined with examples, and steps are enumerated to follow the correct use of the available packages like MSEXCELL, SPSS, SPAR1, SAS etc. Utmost

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care has been taken to present varied range of research problems along with their solutions in agriculture and allied fields which would be of immense use to readers.

The goal of sustainable development is to meet the socio-economic and environmental objectives without comprising the needs of future generations. Since the Rio Summit of 1992, the concept of sustainability has captured our imaginations and aspirations and efforts to develop its indicators have increased. A range of sustainability indicators have been developed within various socio-economic, environmental and cultural contexts- including biodiversity, economy, energy, water, land use and transport.

Sustainability indicators are widespread in international development arena. They have become popularized among governments, non-governmental organizations, private sector and the wider public. Based on multiple cases across the world, this book explores opportunities and challenges associated with the practical application of sustainability indicators. The book reflects diversity of professionals of interdisciplinary backgrounds covering contemporary issues within different socio-economic and environmental contexts. Each chapter presents practical examples of the merits and challenges of using sustainability indicators and draws conclusions and lessons learned. The book targets a range of audience from students, academics to development practitioners and policy-makers. The two editors of this book: Dr. Agnieszka Ewa Latawiec and Dr. Dorice Agol are interdisciplinary scientists who both have experience in research at the environmental conservation and development nexus. As development donors invest hundreds of millions of dollars into improved crops designed to alleviate poverty and hunger, Africa has emerged as the final frontier in the global debate over agricultural

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biotechnology. The first data-driven assessment of the ecological, social, and political factors that shape our understanding of genetic modification, Africa's Gene Revolution surveys twenty years of efforts to use genomics-based breeding to enhance yields and livelihoods for African farmers. Matthew Schnurr considers the full range of biotechnologies currently in commercial use and those in development - including hybrids, marker-assisted breeding, tissue culture, and genetic engineering. Drawing on interviews with biotechnology experts alongside research conducted with more than two hundred farmers across eastern, western, and southern Africa, Schnurr reveals a profound incongruity between the optimistic rhetoric that accompanies genetic modification technology and the realities of the smallholder farmers who are its intended beneficiaries. Through the lens of political ecology, this book demonstrates that the current emphasis on improved seeds discounts the geographic, social, ecological, and economic contexts in which the producers of these crops operate. Bringing the voices of farmers to the foreground of this polarizing debate, Africa's Gene Revolution contends that meaningful change will come from a reconfiguration not only of the plant's genome, but of the entire agricultural system.

For thousands of years, nature has gracefully provided the necessary inputs to feed us, and we

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have in many occasions taken these precious gifts for granted. This report, “Food Systems and Natural Resources” is an effort to account for these inputs, looking at how we are using and managing them, the consequences of that management and the options to improve the efficiency with which they are managed.

Interest in cereals and other healthy grains has increased considerably in recent years, driving the cereal processing industry to develop new processing technologies that meet consumer demands for sustainable and nutritious cereal products. Innovative Processing Technologies for Healthy Grains is the first dedicated reference to focus on advances in cereal processing and bio-refinery of cereals and pseudocereals, presenting a broad overview of all aspects of both conventional and novel processing techniques and methods. Featuring contributions from leading researchers and academics, this unique volume examines the selection and characteristics of raw ingredients, new and emerging processing technologies, novel cereal-based products, and global trends in cereal and pseudocereal use, processing and consumption. The text offers balanced coverage of advances in both the development and processing of cereal and pseudocereal products, exploring topics including gluten-free products, cereal-based animal feed, health and wellness trends in healthy grain

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consumption, bioaccessibility and bioavailability of nutritional compounds, gluten-free products, and the environmental impact of processed healthy grains. This timely and comprehensive volume: Focuses on innovative cereal processing and bio-refinery of cereals and pseudocereals Provides informed perspectives on the current global trends in cereal and pseudocereal use, processing and consumption Describes the characteristics of healthy grains and their production, nutritional value, and utilization Explains the origin, production, processing, and functional ingredients of pseudocereals Reviews healthy grain products such as cereal-based beverages, fortified grain-based products, and cereal-based products with bioactive benefits Part of Wiley's IFST Advances in Food Science series Innovative Processing Technologies for Healthy Grains is an essential resource for food scientists, technologists, researchers, and other professionals working in the grain industry, and academics and advanced students of food technology and food science.

Offers an interdisciplinary exploration of resilience in agriculture, and implications for producers seeking to adapt to change and uncertainty.

The Encyclopedia of Food Security and Sustainability covers the hottest topics in the science of food sustainability, providing a synopsis of the path society is on to secure food for a growing

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population. It investigates the focal issue of sustainable food production in relation to the effects of global change on food resources, biodiversity and global food security. This collection of methodological approaches and knowledge derived from expert authors around the world offers the research community, food industry, scientists and students with the knowledge to relate to, and report on, the novel challenges of food production and sustainability. This comprehensive encyclopedia will act as a platform to show how an interdisciplinary approach and closer collaboration between the scientific and industrial communities is necessary to strengthen our existing capacity to generate and share research data. Offers readers a 'one-stop' resource on the topic of food security and sustainability Contains articles split into sections based on the various dimensions of Food Security and Food Sustainability Written by academics and practitioners from various fields and regions with a "farm to fork understanding Includes concise and accessible chapters, providing an authoritative introduction for non-specialists and readers from undergraduate level upwards, as well as up-to-date foundational content for those familiar with the field Due to the increasing trend of international interest in education for climate change and the environment, there has been an increase of research in the area. There is a current question on what the best

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methods and tools are for integrating climate change education and sustainability into school programs. These educational methods can create the development of effective responses, attitudes, and behaviors to adapt to climate change. Empirical and conceptual models must be explored to help those interested in learning and teaching environmental education and climate change and adding it to modern school curriculum. The Handbook of Research on Environmental Education Strategies for Addressing Climate Change and Sustainability produces innovative approaches, methods, and ideas in education for climate change, environment strategies, and sustainability along with the development of curriculum and strategies for sustainable development goals. The chapters encompass multiple disciplines such as geology, geography, remote sensing, geographic information systems, environmental science, and environmental engineering. This book is ideal for in-service and preservice teachers, administrators, teacher educators, practitioners, stakeholders, researchers, academicians, and students interested in educational strategies and curriculum for climate change and sustainability.

The collaborative or co-management of natural resources - whether between states and local communities or amongst and within communities themselves - is a process of collective understanding

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and actions to bring about negotiated agreements on roles, rights and responsibilities for decentralized governance of natural resources. At heart, co-management is about sharing power, one of the most difficult but rewarding experiences in personal and social life. The book is designed for professionals and people involved in practical co-management processes, and distils a wealth of experience and innovative approaches learned by doing. It begins by offering a variety of vistas, from historical analyses to a clear grasp of key concepts. Illustrated in detail is the understanding accumulated in recent decades on starting points for co-management, conditions and methods for successful negotiations, ideas to manage conflicts and types of agreements and co-management institutions emerging from the negotiation tables. Simple tools, such as checklists distilled from different situations and contexts, are offered throughout. Examples and insights from experience highlight the importance of participatory democracy - the enabling contexts where sharing power is ultimately possible and successful. Published with IIED and IUCN.

Encyclopedia of Agriculture and Food Systems, Second Edition addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face. Questions it addresses include: Will we be able to produce enough food to meet the increasing dietary needs and wants of

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the additional two billion people expected to inhabit our planet by 2050? Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today's agriculture practices? Will we be able to produce the additional food using less land and water than we use now? These are among the most important challenges that face our planet in the coming decades. The broad themes of food systems and people, agriculture and the environment, the science of agriculture, agricultural products, and agricultural production systems are covered in more than 200 separate chapters of this work. The book provides information that serves as the foundation for discussion of the food and environment challenges of the world. An international group of highly respected authors addresses these issues from a global perspective and provides the background, references, and linkages for further exploration of each of topics of this comprehensive work. Addresses important challenges of sustainability and efficiency from a global perspective. Takes a detailed look at the important issues affecting the agricultural and food industries today. Full colour throughout.

To feed a world population that will exceed 9 billion by 2050 requires an estimated 60% increase over current primary agricultural productivity. Closing the common and often large gap between actual and attainable crop yield is critical to achieve this goal. To close yield gaps in both small and large scale cropping systems worldwide we need (1) definitions and techniques to measure and model yield at different levels (actual, attainable,

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potential) and different scales in space (field, farm, region, global) and time (short and long term); (2) identification of the causes of gaps between yield levels; (3) management options to reduce the gaps where feasible and (4) policies to favour adoption of sustainable gap-closing solutions. The aim of this publication is to critically review the methods for yield gap analysis, hence addressing primarily the first of these four requirements, reporting a wide-ranging and well-referenced analysis of literature on current methods to assess productivity of crops and cropping systems. This book gathers review articles that analyze current agricultural issues and knowledge, then propose alternative solutions. It will therefore help all scientists, decision-makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

Agriculture and philosophy have been parts of a whole across history and remain so. Philosophy informs wellbeing and contentment amidst the vagaries of existence, the primary concern of which has always been security of food. Science, once known as natural philosophy, is a major means of philosophical advance today. Agricultural science is presented as comprising all of these components. The philosophical quest to be at ease in nature extends from pre-historical times into our unknown future, and employs diverse vehicles to convey insights across generations via myths, legends religion, academic study and ritual practices. Expressing esoteric concepts has employed agricultural metaphor across the historical era as it has been our most common

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interaction with nature. Continuing as our most widespread human interaction within nature, agriculture's role in creating civilization, and later its writing, eventually led to an urban separation from nature including food production. Unifying the philosophy, agriculture and agricultural science across cultures and traditions from pre-agricultural times through the European Enlightenment to today, this work builds on neglected ancient insights. Perhaps the most profound of these insights is that our thoughts and actions may be seen as an integral part of nature. Rather than being independent agents with free will, our fears and guilt may be seen as active forces in the dynamics of nature itself, which includes our procurement of food. This conception offers a wider interaction than can be comprehended from current popular approaches.

While the collapse of the Soviet Union has diminished the force of George Orwell's 1984, the other great dystopian tract of the twentieth century, Aldous Huxley's Brave New World, is timelier than ever. The ongoing process of genetic science may well revolutionize medicine and human reproduction, and it may end by giving us the ability to transform the human species itself. This new power has raised hopes that we will solve a range of genetically based problems that afflict us. It has also evoked fears that we are on the verge of a 'post human' future in which precious but necessary norms regulating individual and social life will be set aside. Will we have the moral and political wisdom to avoid the pitfalls in using new biotechnologies? Genetic Prospects considers the resources from which

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the needed norms and maxims might be drawn, scrutinizing carefully the contributions of common sense, religion, and moral sentiment. Taken together, the essays in this volume apply philosophical analysis to address three kinds of questions: What are the implications of genetic science for our understanding of nature? What might it influence in our conception of human nature? What challenges does genetic science poses for specific issues of private conduct or public policy?

The book focuses on responsible living as the individual's contribution to sustainable development. We believe that sustainable development can only be achieved if individual freedom and responsibilities are balanced on a high level while taking social, ecological and economic needs into account. A crucial element to achieve this is to integrate different perspectives of stakeholders and co-create a joined approach through partnerships. While partnerships develop new opportunities for the stakeholders involved they also require a readiness for mutual understanding, respect and courage to co-create.

Arising from a scientific conference marking the 100th anniversary of her birth, this book honors the life and work of the social scientist and diplomat Ester Boserup, who blazed new trails in her interdisciplinary approach to development and sustainability.

Explore an in-depth and insightful collection of resources discussing various aspects of root structure and function in intensive agricultural systems The Root Systems in Sustainable Agricultural Intensification delivers a

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comprehensive treatment of state-of-the-art concepts in the theoretical and practical aspects of agricultural management to enhance root system architecture and function. The book emphasizes the agricultural measures that enhance root capacity to develop and function under a range of water and nutrient regimes to maximize food, feed, and fibre production, as well as minimize undesirable water and nutrient losses to the environment. This reference includes resources that discuss a variety of soil, plant, agronomy, farming system, breeding, molecular and modelling aspects to the subject. It also discusses strategies and mechanisms that underpin increased water- and nutrient-use efficiency and combines consideration of natural and agricultural systems to show the continuity of traits and mechanisms. Finally, the book explores issues related to the global economy as well as widespread social issues that arise from, or are underpinned by, agricultural intensification. Readers will also benefit from the inclusion of: A thorough introduction to sustainable intensification, including its meaning, the need for the technology, components, and the role of root systems Exploration of the dynamics of root systems in crop and pasture genotypes over the last 100 years Discussion of the interplay between root structure and function with soil microbiome in enhancing efficiency of nitrogen and phosphorus acquisition Evaluation of water uptake in drying soil, including balancing supply and demand Perfect for agronomists, horticulturalists, plant and soil scientists, breeders, and soil microbiologists, *The Root Systems in Sustainable Agricultural Intensification* will also earn a place in the libraries of advanced undergraduate and postgraduate students in this field who seek a one-stop reference in the area of root structure and function.

This book explores the fundamental determinants of long term changes in agricultural land use and the associated

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implications for environmental and food security. The book is designed around the idea that each chapter focuses on one driver, or underlying determinant, of land use change at global scale. It starts with key factors which have been influential in the past, such as growth population, incomes and agricultural productivity, thereafter turning to new drivers such as biofuels, climate change and demand for environmental services. Specialized topics include food security outcomes, projections of future agricultural prices, greenhouse gas emissions, the role of globalization and market integration. The book draws heavily on the emerging body of literature on these topics, summarizes key findings and organizes these within a unifying economic framework. This book is a comprehensive volume dealing with climate change impacts on agriculture, and which can help guide the redesign of agricultural management and cropping systems. It includes mitigation techniques such as use of bioenergy crops, fertilizer and manure management, conservation tillage, crop rotations, cover crops and cropping intensity, irrigation, erosion control, management of drained wetlands, lime amendments, residue management, biochar and biotechnology. It also includes Management of GHG emissions Crop models as decision support tools QTL analysis Crop water productivity Impacts of drought on cereal crops Silvopastoral systems Changing climate impact on wheat-based cropping systems of South Asia Phosphorous dynamics under changing climate Role of bioinformatics The focus of the book is climate change mitigation to enhance sustainability in agriculture. We present various kinds of mitigation options, ways to minimize GHG emissions and better use of the latest techniques in conservation and environmental-sustainability.

The way food systems have evolved over past decades means that they now face major risks, which in turn threaten

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the future of food systems themselves. Food systems have seriously contributed to climate change, environmental destruction, overexploitation of natural resources and pollution of air, water and soils. Despite the global average improvement in calorie production and major development of the food and agricultural product markets, huge inequalities in food access and repartition of the added value have emerged, leading to new serious nutritional and social problems. Based on a review of the most recent scientific knowledge, this report emphasizes Low-Income and Lower Middle-Income countries where the population faces greater challenges than elsewhere. Different threats are adding up and there are few options to adapt or mitigate these combinations of risks. This is a call for all those - businesses, policy makers, consumers, funding agencies - who are engaged in food systems transformations to bear in mind their systemic aspects and their multiple outcomes and risks in order to be able to fashion more sustainable and equitable food systems. This report was prepared and coordinated by the Centre de coopération internationale en recherche agronomique pour le développement (CIRAD), and is a joint production with the Food and Agriculture Organization of the United Nations (FAO) and the European Commission's Directorate-General for International Cooperation and Development (DG DEVCO). The scientific report hereunder takes stock of the current and future risks and challenges as regards to food systems.

According to estimates by the International Land Coalition based at the International Fund for Agricultural Development (IFAD), 57 million hectares of land have been leased to foreign investors since 2007. Current research has focused on human rights issues related to inward investment in land but has been ignorant of water resource issues and the challenges of managing scarce water. This handbook will be

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the first to address inward investment in land and its impact on water resources in Africa. The geographical scope of this book will be the African continent, where land has attracted the attention of risk-taking investors because much land is under-utilised marginalized land, with associated water resources and rapidly growing domestic food markets. The successful implementation of investment strategies in African agriculture could determine the future of more than one billion people. An important factor to note is that Sub-Saharan Africa will, of all the continents, be hit hardest by climate change, population growth and food insecurity. Sensible investment in agriculture is therefore needed, however, at what costs and at whose expense? The book will also address the livelihoods theme and provide a holistic analysis of land and water grabbing in Sub-Saharan Africa. Four other themes will be addressed: politics, economics, environment and the history of land investments in Sub-Saharan Africa. The editors have involved a highly diverse group of around 25 expert researchers, who will review the pro and anti-investment arguments, geopolitics, the role of capitalist investors, the environmental contexts and the political implications of, and reasons for, leasing millions of hectares in Sub-Saharan Africa. To date, there has been no attempt to review land investments through a suite of different lenses, thus this handbook will differ significantly from existing research and publication. The editors are Tony Allan, (Professor Emeritus, Department of Geography, School of Oriental and African Studies and King's College London); Jeroen Warner (Assistant Professor, Disaster Studies, University of Wageningen); Suvi Sojamo (PhD Researcher, Water and Development Research Group, Aalto University); and Martin Keulertz (PhD Researcher, Department of Geography, London Water Group, King's College London).

The year 2007 could perhaps accurately be described as the

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year when climate change finally received the attention that this challenge deserves globally. Much of the information and knowledge that was created in this field during the year was the result of the findings of the Fourth - sessment Report (AR4) of the Intergovernmental Panel on Climate Change (IPCC), which were disseminated on a large scale and reported extensively by the media. This was the result not only of a heightened interest on the part of the public on various aspects of climate change, but also because the IPCC itself proactively attempted to spread the findings of its AR4 to the public at large. The interest generated on the scientific realities of climate change was further enhanced by the award of the Nobel Peace Prize to the IPCC and former Vice President of the US, Al Gore. By taking this decision in favour of a leader who has done a great deal to create awareness on c- mate change, and a body that assesses all scientific aspects of climate change and disseminates the result of its findings, the Norwegian Nobel Committee has clearly drawn the link between climate change and peace in the world.

Issues in Global Environment: Globalization and Global Change Research: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Global Environment—Globalization and Global Change Research. The editors have built Issues in Global Environment: Globalization and Global Change Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Global Environment—Globalization and Global Change Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Global Environment: Globalization and Global Change Research: 2011 Edition has been produced by the world's

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Sustainability Science and Technology: An Introduction explains the root causes of global failures in natural and human systems, as well as the most readily available technological solutions. The book dispels risky scientific and technological ideas that further complicate the current environmental and socioeconomic predicaments. It also bridges gaps among scientific and technological fields and systematically translates current findings for a wide technical and public audience. Written at a level accessible to all, the story is told one bite-sized chapter at a time, about the size of a scientific journal article. The chapters are self-contained, each grappling with a large topic. This provides more in-depth coverage of a topic than a standard encyclopedia article and promotes the widest possible dialog around sustainability issues and their solutions. Case studies from all continents and all technological development levels expound viable solutions for each of the planetary systems: water, soils, and atmosphere. In turn, the wider socioeconomic context of sustainable science and technology is examined. One of the first books to address the full scope of sustainability, it sets the stage for discussion and sustainability re(training) across professional divides. The editor and contributors take a balanced

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approach that is neither too technical nor too focused on any particular field. They highlight global and regional perspectives and the linkages between different planetary and human systems. The book helps you understand the thorny essence of sustainability issues—often fraught with ethical dilemmas, obsolete technologies, and lifestyle implications—and how to develop solutions to them.

This book emphasis the role of farm level adaptation as a key in developmental pathways that are challenged by climate risks in the semi-arid tropics of Asia and Africa. It throws light on key issues that arise in farm level impacts, adaptation and vulnerability to climate change and discusses Q2 methodological approaches undertaken in study domains of Asia and Africa. The book systematically describes the perceptions, aspirations as elicited/voiced by the farmers and identifies determinants of adaptation decisions. Chapters identify constraints and opportunities that are translated into indicative intervention recommendations towards climate resilient farm households in the semi-arid tropics of Asia and Africa. Furthermore, it discusses with evidences that contributes to the development of livelihood strategy for poor farmers in Asia (Bangladesh, India, Sri Lanka, Thailand, Vietnam and China) and Africa (Burkina Faso, Niger, Kenya and Ghana).

This book provides a detailed history of farming systems research (FSR). While it includes the application of FSR to developed country agriculture, its main focus is on FSR in its original role, with small scale, resource-poor farmers in less developed countries. There are some 40

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contributions from nearly 50 contributors from 20 countries, illustrating both the diversity and yet the coherence of FSR. The five parts of the book cover: (1) FSR - understanding farmers and their farming (FSR origins and perspectives; understanding farming systems); (2) the applications of farming systems research (FSR in technology choice and development; FSR in extension and policy formulation); (3) institutional commitment to FSR (FSR: some institutional experiences in national agricultural research; dimensions of the organization of FSR; training for FSR); (4) FSR: the professional dimension (regional and international associations; FSR and the professional disciplines); and (5) cutting edge methods, abiding issues and the future for FSR.

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