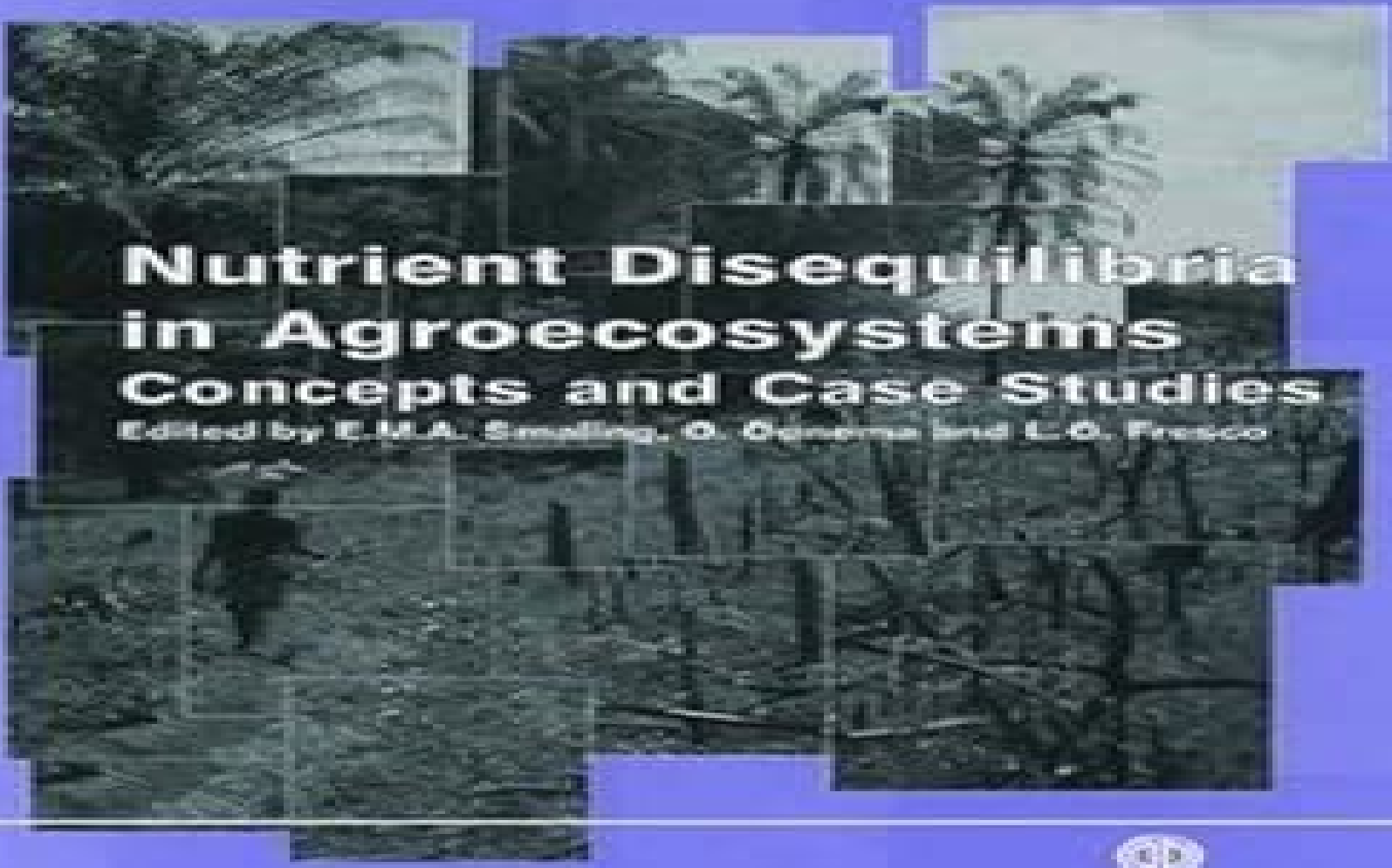




Nutrient Disequilibria in Agroecosystems Concepts and Case Studies

Edited by E.M.A. Smaling, O. Gonzalez and L.O. Frecco



CAB INTERNATIONAL

Nutrient Disequilibria In Agroecosystems Concepts And Case Studies

Alfred E. Hartemink



Nutrient Disequilibria In Agroecosystems Concepts And Case Studies:

Nutrient Disequilibria in Agroecosystems E. M. A. Smaling, Oene Oenema, Louise O. Fresco, 1999 Nutrient imbalances have a substantial impact on the productivity and sustainability of agroecosystems worldwide Fertilizer and manure use atmospheric deposition international transportation of produce solute and gas emissions and soil erosion have all contributed to deficits and surpluses which in some areas have reached alarming proportions This book describes and explores the latest concepts of the causes of nutrient imbalances including the importance of different spatial scales and examines ways to quantify and manage nutrient stocks the increasing amount of legislation and the urgent need for the development of integrated nutrient management technologies Nutrient Disequilibria in Agroecosystems also includes case studies from fish farms in eastern Asia to nutrient flow monitoring in Kenyan tea maize farms the dairy sector in New Zealand and ecological farming in Switzerland the future for global level research in soil fertility management and nutrient flow analysis This title should enhance research and the adoption of international policies on soil fertility maintenance with its global multi scale multi disciplinary approach

Assessment of Soil Nutrient Balance Rabindra N. Roy, Ram V. Misra, Jan Peter Lesschen, E. M. A. Smaling, Food and Agriculture Organization of the United Nations, 2003-01-01 Nutrient balance assessments are valuable tools for delineating the consequences of farming on soil fertility Various approaches and methods for different situations have been used in the past This bulletin presents a state of the art review of nutrient balance studies It brings out the evolution of the approaches and methods provides for comparisons among them features the improvements made and highlights remaining issues This analysis will be useful in further development of the assessment methodologies as reliable tools for devising time scale soil fertility management interventions

Agricultural Effects on Ground and Surface Waters J. H. A. M. Steenvoorden, Frans Claessen, Jaap Willems, 2002

Dynamics and Diversity Ian Scoones, 2010-09-23 Soils are critical to agriculture and in turn to food supply and livelihoods Sustainable management of soils is crucial for a large proportion of the population of Africa Contrary to many claims soil fertility is improved and managed successfully by small scale farmers there Careful studies from widely different areas reveal how closely bound up soil management is with complex social cultural and ecological factors requiring a far more subtly tuned approach to development policy and practice This work is a study of how the context of livelihood systems has to inform development policy and practice

Soil Fertility Decline in the Tropics Alfred E. Hartemink, 2003 Wide coverage of soils and perennial cropping systems in the tropics Synthesis of decades of research Challenges assumptions on the benefits of plantations for soil fertility It is generally assumed that soil fertility decline is widespread in the tropics and that this is largely associated with annual cropping and subsistence farming In contrast perennial plant cover as in plantation agriculture provides better protection for the soil This book reviews these concepts focusing on soil chemical changes under different land use systems in the tropics These include perennial crops annual crops and forest plantations Two case studies on sisal plantations in Tanzania and sugar cane in

Papua New Guinea are presented for detailed analysis The author demonstrates that soil fertility decline is also a problem on plantations

Integrated Plant Nutrient Management in Sub-Saharan Africa, 2002 Soil degradation and nutrient depletion have become serious threats to agricultural productivity in Africa Soils cannot supply the quantities of nutrients required and yield levels decline rapidly once cropping commences This book addresses these issues and includes papers from an international symposium held at Cotonou Benin October 9 12 2000 organized by the International Institute of Tropical Agriculture Ibadan Nigeria and the Department of Land Management of the Katholieke Universiteit Leuven Belgium In five main parts it marks the end of a first phase of collaborative research on Balanced Nutrient Management Systems for the Moist Savanna and Humid Forest Zones of Africa and concludes with recommendations providing essential reading for crop and soil scientists

Agroecological Innovations Norman Uphoff, 2013-06-17 The world's food supply needs to rise significantly yet both arable and water supplies per capita are decreasing Not only are modern agricultural methods beyond the reach of those suffering the greatest food insecurity but they are also ecologically damaging relying upon fossil energy and chemical inputs This volume offers a collection of innovative and diverse approaches to agricultural development Documented in 12 case studies these approaches are reliant upon greater knowledge skill and labour input rather than larger capital expenditure They are shown to increase yield substantially sometimes doubling or tripling output This volume presents the concepts and operational means for reorienting agricultural efforts towards these more environmentally friendly and socially desirable approaches in the developed as well as developing world

Nutrient Elements in Grassland D. C. Whitehead, 2000-10-23 This book is an essential reference source covering the chemical elements that are nutrients for plants or grazing animals It deals with the concentrations and transformations of these elements in soils grassland plants and ruminant animals particularly cattle and sheep For each element the following data are given forms occurring in soil factors that affect availability and concentration uptake and distribution in grassland plants role in animal nutrition amounts and forms excreted by grazing animals and concentrations needed by ruminant animals

Trace elements in animal production systems P. Schlegel, S. Durosoy, A.W. Jongbloed, 2023-08-28 This book deals with trace elements such as cobalt copper iron manganese selenium and zinc which are essential to modern animal nutrition but are increasingly detrimental to soil and water quality in today's globalized production The goal in finding a sustainable balance between trace element use in animal nutrition and its impact on the environment is addressed by focussing on the following questions What is the trace element flow on farm regional or national scale and which tools are available to influence the flow What are today's and future soil and water quality in regards to trace minerals What are the trace mineral loading limits in soil and water from a health and legal standpoint Which technologies exist to modify slurry trace element contents What is today's knowledge on quantitative and qualitative trace element requirements and recommended supplementation for ruminants swine poultry fish and crustaceans What is trace element bioavailability and how can it be determined To which extent are trace minerals

related to immune response What are the future issues to be addressed in trace element nutrition This book contains the peer reviewed papers of the first International Symposium on Trace Elements in Animal Production Systems It is a valuable resource for researchers and professionals in the life sciences of animal nutrition soil and water quality for actors in the feed industry and policy making

Below-ground Interactions in Tropical Agroecosystems Meine van Noordwijk, Georg Cadisch, C. K. Ong, 2004 Below ground interactions are often seen as the dark side of agroecosystems especially when more than one crop is grown on the same piece of land at the same time this book aims to review the amount of light the past decade of research has shed on this topic It also aims to review how far we have come in unravelling the positive and negative aspects of these interactions and how in dialogue with farmers we can use the generic principles that are now emerging to look for site specific solutions

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