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Theocharis Chatzistathis
Abdul Rashid Antonios Chrysargyris
Brian J. Alloway
Sanjay Mohapatra
Mikko Sillanpää
Hari Lal Singh Tandon
C P Sharma
A. Hemantaranjan
International Research Group on Refuse Disposal
William Dubbin
Ohio Agricultural Research and Development Center
Carl E. Whitcomb
Botanical Society of Bengal
Botanical Society of Bengal, Calcutta

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micronutrient deficiency in soils and plants highlights the problems caused by micronutrient deficiencies in vegetative production this ebook emphasizes on the necessary requirements for plant growth micronutrients the vital deficiency symptoms of micronutrients and their crucial role in plant metabolism the scope of this ebook covers a

range of topics including micronutrient deficiency the availability of micronutrient in soils plant metabolism and micronutrient solubility the contents of this ebook include chapters on micronutrient solubility and availability in soils the role of micronutrients in plant metabolism and growth and diagnostic tools to assess deficiencies of iron zinc copper and other micro nutrients micronutrient deficiency in soils and plants is a valuable resource for msc and phd students academic personnel and researchers seeking updated and critically important information on major nutritional problems in agricultural soils and crops

micronutrient research has been an important component of the soil fertility and plant nutrition program in pakistan since the identification of zinc deficiency in rice in 1969 since then considerable progress has been made on diagnosis and management of micronutrient nutrition problems in crops however now there is growing r d evidence that micronutrient malnutrition in humans could be addressed through enriching staple food grains with micronutrients this book presents the latest r d information on micronutrient problems in crop plants cropping systems and their corrective measures the current status the constraints and economic benefits of using micronutrient fertilizers for optimizing crop productivity and soil resource sustainability are discussed along with estimating future potential requirement of micronutrient fertilizers to optimize crop productivity produce quality and soil resource sustainability wide scale preventable micronutrient deficiencies in human populations originate from micronutrient deficient soils over which staple cereals and other food crops are grown this book summarizes r d information on fertilizer use based micronutrient biofortification in staple food grains to address hidden hunger in human populations the book also presents the best management practices by which micronutrient deficiencies could be corrected in crop plants in a farmer friendly manner features reviews the micronutrients r d carried out in pakistan over the past five decades focuses on soil plant analysis techniques for effective prognosis and diagnosis of micronutrient disorders presents spatial variability maps of micronutrient deficiencies in agricultural soils and crops provides value cost ratios of using micronutrient fertilizers for major crops works out current use level of micronutrient fertilizers and their potential future requirements in the country discusses agronomic biofortification approach for enriching crop based food with micronutrients to address hidden hunger presents a compelling case for enhanced use of the deficient micronutrient fertilizers to optimize crop productivity farmer income and national economy presents micronutrient fertilizer use recommendations for salient crops and discusses fertilizer use for micronutrients in the context of 4r nutrient stewardship recommends future r d needed for optimizing micronutrient nutrition of crops

a deficiency of one or more of the eight plant micronutrients boron chlorine copper iron manganese molybdenum nickel and zinc will adversely affect both the yield and quality of crops micronutrient deficiencies in crops occur in many parts of the world at various scales from one to millions of hectares but differences in soil conditions climate crop genotypes and management result in marked variations in their occurrence the causes

effects and alleviation of micronutrient deficiencies in crops in australia india china turkey the near east africa europe south america and the united states of america are covered and these are representative of most of the different conditions under which crops are grown anywhere in the world links between low contents of iodine iron and zinc human micronutrients in staple grains and the incidence of human health problems are discussed together with the ways in which the micronutrient content of food crops can be increased and their bioavailability to humans improved detailed treatment of topics such as soil types associated with deficiencies soil testing and plant analysis field experiments innovative treatments micronutrients in the subsoil nutrient interactions effects of changing cropping systems micronutrient budgets and hidden deficiencies in various chapters provides depth to the broad coverage of the book this book provides a valuable guide to the requirements of crops for plant micronutrients and the causes occurrence and treatment of deficiencies it is essential reading for many agronomy plant nutrition and agricultural extension professionals

phenomenal progress has been made in our understanding of the several and diverse ways in which micronutrients alter or regulate the functioning of plants and produce a wide array of responses enabling quantitative and qualitative changes in plant yield this book addresses biochemical and physiological roles of micronutrients in plants and the diverse ways in which they react to limitations in micronutrients supply contributing to global constraints in crop production the book is presented in two parts part i deals with roles of micronutrients and the changes induced in plants in response to their inadequate supply part ii addresses the factors contributing to micronutrients deficiency their diagnosis evaluation and management through soil and plant based approaches

contributed articles

a lucid and practical introduction to soils covering everything from how it is formed different soil types and their properties through to applied aspects such as nutrients and fertilisers illustrated throughout with sections in colour

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