The current report—Mechanized: Transforming Africa’s Agriculture Value Chains—summarizes the findings of a systematic analysis of what countries at the forefront of progress in mechanization have done right. It analyzes which policy decisions were taken and which interventions were implemented to substantially increase the uptake of mechanization. The report takes a broad perspective on mechanization, including technologies along the entire value chain and how they relate to agricultural development and job creation. The report shows what can be done to sustainably mechanize agriculture to increase production and enhance value addition across value chain segments. The set of policies and practices that are identified, if brought to scale, could have significant impact on agricultural transformation in Africa. The report provides a roadmap for African governments to take concerted action to deliver on the growth and transformation targets set out by the Malabo Declaration and the Sustainable Development Goals.

The book is a compilation of articles on various issues, presented at the workshop on the Influence of Environment on Growth, Production, Physiology and Disease of Crops that was held at the University of Helsinki, Finland, December 2000. The main focus of the book is a review of the environmental factors influencing the growth, development and production of food crops grown under various conditions. The book will be useful to scientists, researchers, students or experts dealing with agronomy, plant physiology, plant nutrition, plant pathology and crop cultivation.

Horticulture Reviews is an open-ended, serial continuation series of review articles on research in commercial horticulture crops. This detailed analysis bridges the gap between the specialized researcher and the broader community of plant scientists.

Publishes in-depth articles on labor subjects, current labor statistics, information about current labor contracts, and book reviews.
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testing; Crop management; Soil management; Water management; Crop protection; Mechanization in vegetable production; Postharvest technology for vegetables; Economics of vegetable production.

The agricultural industry is dealing with enormous challenges across the globe, including the limited availability of arable lands and fresh water, as well as the effect of climate change. Machinery plays a crucial role in agriculture and farming systems, in order to feed the world’s growing population. In the last decade, we have witnessed major advances in agricultural machinery and technologies, particularly as manufacturers and researchers develop and apply various novel ways of automation as well as the data and information gathering and analyzing capabilities of their machinery. This book presents the state-of-the-art information on the important innovations in the agricultural and horticultural industry. It reviews and presents different novel technologies and implementation of these technologies to optimize farming processes and food production. There are four sections, each addressing a specific area of development. Section I discusses the recent development of farm machinery and technology. Section II focuses on water and irrigation engineering. Section III covers harvesting and post-harvest technology. Section IV describes computer modelling and simulation. Each section highlights current industry trends and latest research progress. This book is ideal for those working in or are associated with the fields of agriculture, agri-food chain and technology development and promotion.

This is an up-to-date comprehensive text and reference on vegetable production in America and Canada for vegetable growers, handlers and marketers. Divided into three parts, this book discusses principles of vegetable production, explores the science and technology of vegetable crops (covering 12 major crop areas) and provides a glossary of terms used throughout. Nonnecke relates the most useful technology to each topic covered and emphasizes the key role of good husbandry as well as the opportunity for each region to deliver seasonably or year-round abundant, high-quality produce.

This publication contains a detailed description of research efforts and available technologies related to different agricultural practices in vegetable crop production like tillage, sowing, planting or transplanting available in India and abroad. Critical operations like planting and transplanting need serious attention of researchers, thus, a comprehensive review on such aspects has been included in the book besides brief description on agronomical practices of vegetable crops. The equipment related to plant protection and irrigation methods appropriate to vegetable cultivation, state-of-art technologies related to harvesting and seed extraction of vegetable crops, post-harvest management of vegetables including on-farm processing for value addition, energy efficient low cost technologies like evaporative cool chamber, environment controlled cool chamber, protected cultivation for higher production and quality vegetable production, technologies related to vegetable seed processing, Indian standards on vegetable cultivation and processing machines have also been described.

A work which traces the development of US Government programmes designed to help migrant farm workers, showing how the programmes operate today and explaining why they are failing to remedy the problems they were designed to solve.

Translations of selected articles.

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