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Nota di contenuto	Part I. Introduction -- Applicability of Sustainable Agriculture in Egypt -- Part II. Overview of Egyptian Sustainable Agriculture -- Deficit Irrigation Management as Strategy Under Conditions of Water Scarcity; Potential Application in North Sinai, Egypt -- Soil toxicology: Potential Approach on the Egyptian Agro-environment -- Part III. Potential application of crop productivity -- Potential Role of Intercropping in Maintaining and Facilitating Environmental Sustainability -- Role of Intercropping in Increasing Sustainable Crop Production and Reducing Food Gap in Egypt -- Sustainable Cultivation of Rice in Egypt -- Part IV. Biotechnology Application for Agricultural Sustainability -- Bioactive Compounds in Soybean Proteins and its Applications in Food Systems -- Influence of natural plant extracts in reducing soils & water contaminates -- Underutilized Plant Species and Agricultural Sustainability in Egypt -- Plant Biotechnology Status in Egypt --

Fermented Food in Egypt: A Sustainable Bio-preservation to Improve the Safety of Food -- Part V. Potentiality of Soil Sensing for Sustainable Agriculture -- Geostatistics and Proximal Soil Sensing for Sustainable Agriculture -- Sustainable Indicators in Arid Region; Case study – Egypt -- Implication of Geo-Informatics (GIS/RS) on Agricultural Irrigation Management: The State of the Art -- Importance of Forage Mixtures in Increasing Sustainable Food Supply in Egypt -- Hydrological Simulation of a Rainfed Agricultural Watershed using the Soil and Water Assessment Tool (SWAT) -- Part VI. Conclusions -- Update, Conclusions, and Recommendations for Sustainability of the Agricultural Environment in Egypt: The Soil–Water–Food Nexus.

Sommario/riassunto

This volume discusses the sustainability of Egypt’s agriculture and the challenges involved. It provides a comprehensive review and the latest research findings, and covers a variety of topics under the following themes: · Applicability of sustainable agriculture in Egypt · Sustainable agriculture under water scarcity and polluted soil environments · Improved crop productivity using a variety of tried and tested procedures · Biotechnology application for agricultural sustainability and food security · Potentiality of soil-sensing for a more sustainable agricultural environment The volume closes with a summary of the key conclusions and recommendations from all chapters. Together with the companion volume Sustainability of Agricultural Environment in Egypt: Part II, it offers an essential source of information for postgraduate students, researchers, and stakeholders alike.