

Westerman, R.L. (ed.): **Soil Testing and Plant Analysis**. Third Edition (Number 3 in the Soil Science Society of America Book Series). - Soil Science Society of America, Madison 1990. 784 pp.

This volume, firstly published in 1967, has been twice substantially revised into the present enhanced third edition. It combines a rapid increase in knowledge regarding the methodology and interpretation of analytic results and promotes a more efficient fertilizer use and ecological aspects.

The team of the authors very progressively wrote the whole book on the basis of the up-to-date research development. The volume comprises 27 chapters regarding The Principles of Soil Testing, Physical and Chemical Aspects of Nutrient Availability, Soil Sample Collection and Handling, Soil Correlation Test, Soil pH and Lime Requirement Determination, Testing Soils for Available Nitrogen, Testing Soils for Phosphorus, Potassium, Calcium, Magnesium, Copper, Iron, Manganese, Zinc, Sulfur, Boron, Molybdenum, Chlorine and Toxic Metals, Testing Soils for Salinity and Sodicity, Testing Artificial Growth Media and Interpreting the Results, Principles and Practices in Plant Analysis Sampling, Handling and Analysing Plant Tissue Samples, Plant Analysis as an Aid in Fertilizing Sugarbeet, Sugarcane, Corn, Small Grains Sorghum, Vegetable, Orchards, Forage Crops, Tobacco and Forests, Analytical Instruments for Soil and Plant Analysis, as well as Data Processing in Soil Testing and Plant Analysis. Each chapter includes theoretical principles, practice and interpretation adjustments. You can find here the description of the basic, classical and latest plant analysis and the soil testing methods that on the diagnostic basis enable an efficient fertilizer use and a better management practice. Simultaneously the nutritional contents in surface and ground water is minimized and the environmental pollution is reduced. Both a computerized management of data and information and analytical results spreading among the users are described.

This publication is very helpful for all the those interested in laboratory activities as well as for the agronomists, scientists, teachers and students involved in the research related to soils, crops, forestry, horticulture, ecology, botany, and environmental issues.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Volume 49. Chromium, Nickel and Welding. - International Agency for Research on Cancer, Lyon 1989. 667 pp. Sw. Fr. 95.00.

The presence of a very large number of chemical pollutants is progressively being identified in the air, soil and water. The metals and different metallic compounds form a major portion of these chemical pollutants. From 1972, the IARC published several specific volumes dealing with metals, including chromium and nickel (the last one in 1987). Since that time new data have become available and they are included in the present Monographs. For both metals, data are given on chemical and physical properties, their production, use, occurrence and analysis, and concerning their biological effects relevant to the evaluation of carcinogenic risks to humans. According to the IARC Working Group, the chromium (VI) and nickel compounds are carcinogenic to humans. The third Monograph in this volume deals with the biological effects of the fumes and gases arising from the welding processes. According to the data presented, the welding fumes are possibly carcinogenic to humans. The publication is accompanied by Summary Tables and Activity Profiles of the genetic and related effects.

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