

CONTENT

| | |
|--|-----|
| Measurement of Plant Nutrient Supply of Soils by Radioactive Isotopes | 1 |
| Uses of Macronutrient Isotopes in Soil Fertility Research | 19 |
| Solubility and Plant Utilization of Micronutrients | 49 |
| Role of Tracers in Root Development Investigations | 71 |
| The Use of Radioisotopes in Soil Physics Research | 81 |
| Photosynthesis | 97 |
| Nitrogen-15 as a Tracer of Nitrogen Metabolism of Plants | 111 |
| The Translocation of Organic Nutrients in Plants | 123 |
| Nutrient Uptake with Special Reference to Foliar Absorption | 139 |
| Absorption and Translocation of Plant Regulating Compounds | 165 |
| The Use of Radiation in Plant Breeding | 183 |
| Radioisotopes in Entomology | 195 |
| Radioactive Miconutrients in Animal Metabolism | 231 |
| Macronutrient Metabolism | 249 |
| Lactation and Hormones | 305 |
| Use of Isotopes in Studies of Amino Acid Synthesis in Animals | 335 |
| Introduction to Radiation Sterilization of Food | 351 |
| Present-Day Status of Radiation Sterilization | 353 |
| Gamma-irradiation Facilities Designed to Process Commercial Quantities of Food Products | 367 |
| Effect of Irradiation Sterilization on Nutritive Value of Protein, Carbohydrate, and Fat | 391 |
| Toxicological Studies on Foods Sterilized with Ionizing Radiations | 415 |
| Feasibility of Food Irradiation | 429 |
| Index | 437 |