

CONTENTS

Regulatory Constraints on Agriculture	1
Recent Information on Air Pollution Impact in North-Rhine Westphalia	7
Ecological Observation of the <sup>137</sup> Cs-Contamination in Beef of animals from the Southern – Bavarian Area	24
Plant Nutrition and Politics as Seen by a Food Technologist	37
Methods for Routine Mutagenicity Screening in Mammals and Man	43
Farewell	51
General Pollution Problems	53
Urinary Metabolites from $\gamma$ - and $\dots$ -BHC in the Mouse: Chlorophenol Conjugates	56
Recent Status of Organochlorine Pesticide Residues in Foods in Japan	74
Assessing Toxicological Properties of Organotin Compounds	80
Chemical Aspects of Organophosphate Pesticides in View of the Environment	96
Inhibition of Hepatic Drug Metabolizing Enzymes by Thiophosphate Insecticides and its - Toxicological Evaluation	109
Degradation of Organophosphorus Pesticides in Soils with Special Reference to Anaerobic Soil Conditions	117
Degradation of Carbamate Insecticides in Soil	128
Transformation of Carbamate Insecticides in the Environment	134
Environmental Effects of the Herbicide, Paraquat	136
Herbicide Metabolism by Glutathione Conjugation in Plants	140
Environmental Problems Related to Herbicidal Use in Japan	149
Microbial Degradation of Pesticides with Particular Reference to the Formation of Terminal- Residues	160
Transformations of Environmental Contaminants by Light	175
Impact of Chemicals on the Environment	179
The Fate of PCB's in the Environment	188
Benefit of Risk Evaluations in Modern Toxicology	194
Identification of Carcinogenic, Mutagenic and Teratogenic Substances in the Environment	200
Significance of Mutagenicity Testing on Pesticides	226
Carcinogenic, Hematoxic and Hepatotoxic Effects of Organic Phosphate Pesticides	232
Epidemiological Research on Cancer Risk by Aldol and Aliphatic Aldehydes	235
Some Mansions of Toxicology	239
Technology Assessment for Environmental Contamination of Pesticides	246
Special Problems of Toxicology in the Environmental Field	253
Index	261

