

Contents

	PAGE		PAGE
Preface to Eleventh Edition.....	v	Paris Green.....	81
Preface to First Edition.....	ix	Lead Arsenate.....	81
List of Illustrations.....	xv	Calcium Arsenate.....	82
Definitions of Terms and Explanatory Notes.....	xvii	Zinc Arsenate.....	82
		Copper Naphthenate.....	82
CHAPTER		Bordeaux Mixture.....	83
1. Agricultural Liming Materials.....	1	Cyanides.....	84
Calcium Silicate Slags.....	3	Soap.....	84
Elementary Analysis.....	4	Mineral Oils.....	84
2. Fertilizers.....	8	Tobacco and Tobacco Products....	85
Free Water.....	11	Derris and Cubé Powder.....	86
Phosphorus.....	11	Pyrethrins.....	88
Nitrogen.....	16	Formaldehyde.....	89
Potassium.....	20	Lime Sulfur Preparations.....	90
Other Elements.....	23	Ant Poisons and Rodenticides.....	91
Peat.....	32	Fumigants.....	91
3. Plants.....	34	Herbicides.....	92
Metals.....	34	Mercurial Seed Disinfectants.....	97
Nonmetals.....	44	Hypochlorites.....	97
Other Constituents.....	49	Chloramine T.....	98
Pigments.....	52	Quaternary Ammonium Compounds	98
Tobacco.....	55	Aldrin, Dieldrin, and Endrin.....	99
4. Disinfectants.....	59	Technical Allethrin.....	101
Phenol Coefficient.....	59	Carbaryl.....	102
Use-Dilution Method.....	61	Chlordane (Technical).....	102
Available Chlorine Germicidal		Hexachlorocyclopentadiene.....	104
Equivalent Concentration.....	63	DDT.....	104
Sporicidal Test.....	64	2,2-Dichlorovinyl Dimethyl Phos-	
Fungicidal Test.....	65	phate (DDVP).....	106
Germicidal and Detergent Sanitizers	66	Dodine.....	107
Germicidal Spray Products.....	68	Heptachlor.....	107
Water Disinfectant for Swimming		BHC.....	108
Pools.....	68	Malathion.....	112
Tuberculocidal Activity.....	71	Organic Thiocyanates.....	114
5. Hazardous Substances.....	73	Parathion.....	114
Preparations Containing Phenol....	73	Phorate.....	116
Soda Lye.....	74	Piperonyl Butoxide.....	116
6. Pesticide Formulations.....	75	Sabadilla Alkaloids.....	117
General Methods.....	75	Sulfoxide.....	117
		Tetraethylpyrophosphate.....	118
		Dithiocarbamates.....	118
		Thiram.....	119

	PAGE		PAGE
7. Animal Feed	122	15. Coffee and Tea	236
Nitrogen.....	123	Green Coffee.....	236
Other Constituents.....	128	Roasted Coffee.....	236
Preservatives.....	137	Tea.....	239
8. Baking Powders and Baking Chemicals	139	16. Dairy Products	242
9. Beverages: Distilled Liquors	144	Sampling.....	242
Spirits.....	144	Milk.....	245
Cordials and Liqueurs.....	154	Evaporated Milk (Unsweetened)...	264
10. Beverages: Malt Beverages and Brewing Materials	157	Sweetened Condensed Milk.....	265
Beer.....	157	Dried Milk, Nonfat Dry Milk, and Malted Milk.....	266
Malt.....	166	Butter.....	267
Cereal Adjuncts.....	173	Cheese.....	272
Hops.....	175	Ice Cream and Frozen Desserts....	279
Brewing Sugars and Sirups.....	177	17. Eggs and Egg Products	283
Wort.....	178	18. Fish and Other Marine Products ..	294
Yeast.....	179	19. Flavors	311
Brewers' Grains.....	180	Vanilla Extract and Its Substitutes.	311
11. Beverages: Wines	183	Lemon, Orange, and Lime Extracts and Flavors.....	320
12. Beverages: Nonalcoholic and Concentrates	192	Lemon and Orange Oils.....	323
13. Cacao Bean and Its Products	197	Almond Extract.....	325
Shell.....	197	Cassia, Cinnamon, and Clove Extracts.....	326
Cacao Products Processed with Alkalies.....	204	Ginger Extract.....	326
Chocolate Liquor.....	204	Peppermint, Spearmint, and Wintergreen Extracts.....	327
Fat.....	204	Anise and Nutmeg Extracts.....	327
Dairy Ingredient Constituents....	208	Other Extracts and Toilet Preparations.....	327
Saccharine Ingredients Other Than Lactose.....	208	20. Food Additives: Direct	330
Starch.....	209	Acidulants.....	330
Chocolate Products.....	209	Antioxidants.....	330
Theobromine.....	210	Chemical Preservatives.....	333
14. Cereal Foods	211	Emulsifying Agents.....	353
Wheat Flour.....	211	Enzymes.....	354
Wheat, Rye, Oats, Corn, Buckwheat, Rice, and Barley and Their Products Except Cereal Adjuncts.	222	Miscellaneous.....	354
Soybean Flour.....	224	Nonnutritive Sweeteners.....	355
Bread.....	224	Nutrients.....	359
Baked Products.....	228	Solvents.....	359
Baked Products Other Than Bread (Not Containing Fruit).....	229	21. Food Additives: Indirect	361
Fig Bars and Raisin-Filled Cookies.	229	22. Fruits and Fruit Products	367
Macaroni, Egg Noodles, and Similar Products.....	230	Potassium.....	371
		Phosphorus.....	372
		Fruit Acids.....	377
		Sugars.....	385
		Lemon Juice.....	388

	PAGE		PAGE
23. Gelatin, Dessert Preparations, and Mixes	390	Glyodin.....	501
24. Meat and Meat Products	392	Malathion.....	502
Meat.....	392	Maleic Hydrazide.....	503
Meat Extracts and Similar Products	398	Methoxychlor.....	504
25. Metals and Other Elements as Residues in Foods	399	Monofluoroacetic Acid.....	504
Antimony.....	399	Naphthaleneacetic Acid.....	506
Arsenic.....	399	Nicotine.....	507
Cadmium.....	403	Parathion.....	508
Copper.....	404	Piperonyl Butoxide.....	509
Fluorine.....	405	Thiram.....	510
Lead.....	411	30. Spices and Other Condiments	512
Manganese.....	418	Spices.....	512
Mercury.....	418	Prepared Mustard.....	515
Selenium.....	420	Dressings for Foods.....	516
Tin.....	422	Vinegars.....	519
Zinc.....	423	31. Sugar and Sugar Products	524
26. Natural Poisons	426	Sugars and Sirups.....	524
Mycotoxins.....	426	Molasses and Molasses Products... ..	538
Marine Toxins.....	438	Confectionery.....	541
Phytotoxins.....	438	Honey.....	543
27. Nuts and Nut Products	439	Maple Products.....	549
Peanut Butter.....	439	Sugar Beets.....	553
Shredded Coconut.....	440	Starch Conversion Products.....	553
28. Oils and Fats	441	32. Vegetable Products. Processed	559
Physical Constants.....	441	Canned Products.....	559
Chemical Constants.....	444	Dried Vegetables.....	562
Acid Constituents.....	447	Frozen Vegetables.....	562
Unsaponifiable Constituents.....	457	33. Waters. Mineral; and Salt	565
Tests for Specific Oils.....	463	Mineral Waters.....	565
Chick Edema Factor.....	466	Salt.....	571
Mono- and Diglycerides.....	469	34. Color Additives	575
Flaxseed.....	473	Separation and Identification of Color Additives in Foods. Drugs. and Cosmetics.....	575
29. Pesticide Residues	475	Analysis of Commercial Synthetic Organic Color Additives.....	582
General Method for Chlorinated and Phosphated Pesticides.....	475	35. Cosmetics	606
Multiple Residue Method for Phosphated Pesticides.....	484	General Methods.....	606
Benzene Hexachloride.....	489	Deodorants and Anti-perspirants... ..	608
Biphenyl.....	490	Depilatories.....	610
Aramite.....	491	Face Powders.....	611
Captan.....	492	Hair Preparations.....	613
Carbaryl.....	493	Suntan Preparations.....	617
Sulphenone.....	495	Vanishing Cream.....	617
DDT.....	497	36. Drugs	619
Dichlone.....	499	General Directions.....	619
Guthion.....	499	Solvents.....	619
Dodine.....	500	Alkaloids, Opium.....	620

	PAGE		PAGE
Alkaloids. Other than Opium. and Related Compounds.....	624	Piperazine.....	742
Antipyretic Drugs.....	649	Racephenicol.....	743
Hormones and Related Compounds.....	657	Reserpine.....	745
Hypnotic Drugs.....	665	Ronnel.....	746
Inorganic Drugs.....	669	Sulfonamides.....	747
Miscellaneous Drugs.....	678	Thiabendazole.....	750
Mydriatics and Myotics.....	693	Zoalene.....	751
Phenolic Drugs.....	694	Antibiotics.....	752
Sulfonamide Drugs.....	699	39. Vitamins and Other Nutrients.....	764
Vegetable Drugs and Their Derivatives Not Containing Alkaloids..	701	Chemical Methods.....	764
Microscopic Tests.....	708	Microbiological Methods.....	781
37. Drugs and Feed Additives in Animal Tissues.....	722	Bioassay Methods.....	794
ANOT.....	722	40. Extraneous Materials: Isolation... 802	
Ethoxyquin.....	723	General.....	802
Nalidixic Acid.....	723	Beverages and Beverage Materials.....	806
Zoalene.....	724	Dairy Products.....	808
38. Drugs in Feeds..... 726		Nuts and Nut Products.....	812
Arsenic.....	726	Cereal Foods.....	815
Cyzine.....	727	Eggs and Egg Products.....	819
Aklomide.....	728	Poultry, Meat, and Fish and Other Marine Products.....	820
p-Aminobenzoic Acid.....	728	Fruit and Fruit Products.....	821
Enheptin.....	729	Sugar and Sugar Products.....	823
Amprolium.....	729	Vegetables and Vegetable Products.....	824
Arsanilic Acid.....	731	Spices and Other Condiments.....	831
Bithionol.....	731	Animal Excretions.....	835
Buquinolate.....	731	Miscellaneous.....	837
Cadmium Anthranilate.....	732	41. Microbiological Methods..... 839	
Decoquinolate.....	732	Examination of Eggs and Egg Products.....	839
Diethylstilbestrol.....	733	Examination of Frozen, Chilled, Pre-cooked, or Prepared Foods.....	842
Dimetridazole.....	734	<i>Clostridium perfringens</i>	844
Ethopabate.....	735	<i>Salmonella</i>	845
Furazolidone.....	736	42. Microchemical Methods..... 853	
Glycarbamide.....	737	43. Radioactivity..... 864	
Nicarbazin.....	738	44. Spectroscopic Methods..... 866	
Nicotine.....	738	45. Standard Solutions and Materials. 871	
Nihydrazone.....	739	46. Laboratory Safety..... 878	
Nithiazide.....	739	47. Reference Tables..... 885	
Nitrodan.....	740		
Nitromide.....	741		
Nitrophenide.....	741		
Nitarsonic.....	742		
Phenothiazine.....	742		