

Recent Books, Fall 2000

Ashgate Handbook of Pesticides and Agricultural Chemicals. Edited by G. W. A. Milne; Ashgate Publishing: Brookfield, VT, 2000; 224 pages.

Includes data on 1800 substances, including definitions, classifications, chemical composition, physical properties, functions, applications, suppliers, and acute toxicity. Extensive index of trade names and synonyms. International in scope.

Mass Spectrometry of Natural Substances in Foods. By Fred A. Mellon, Ron Self, and James R. Startin; Royal Society of Chemistry: Cambridge, U.K., 2000; 299 pp.

Covers mass spectrometry of food flavorings and taints, bioactive non-nutrients, amino acids, peptides and proteins, lipids, sugars and carbohydrates, and inorganic nutrients and vitamins.

Natural Extracts Using Supercritical Carbon Dioxide. By Mamata Mukhopadhyay; CRC Press: Boca Raton, FL, 2000; 360 pp.

Explores supercritical carbon dioxide extraction of flavor and fragrance extracts; fruit, spice, and herbal extracts; natural pesticides, food colors, and antioxidants; and plant and animal lipids.

Food Emulsions; Principles, Practice, and Techniques. By David Julian McClements; CRC Press: Boca Raton, FL, 1999; 392 pp.

Guide to understanding and controlling appearance, stability, flavor, and texture of food emulsions.

Natural Food Antimicrobial Systems. Edited by A. S. Naidu; CRC Press: Boca Raton, FL, 2000; 832 pp.

Provides background and historical information, molecular properties, applications, advantages, and safety of lacto-antimicrobials, ovo-antimicrobials, phyto-antimicrobials, bacto-antimicrobials, acid-antimicrobials, and milieu-antimicrobials.

Pesticides in Stream Sediment and Aquatic Biota; Distribution, Trends, and Governing Factors. By Lisa H. Nowell, Paul D. Capel, and Peter D. Dileanis; Lewis Publishers: Boca Raton, FL, 1999; 1040 pp.

Summarizes results from several hundred monitoring studies and field experiments; discusses effect of land use on pesticide occurrence; uptake and accumulation mechanisms; environmental significance of observed levels in stream sediment and aquatic biota.

Agrochemical and Pesticide Safety Handbook. By Michael F. Waxman; Lewis Publishers: Boca Raton, FL, 1998; 640 pp.

Provides information on 420 pesticides and 70 agricultural chemicals; covers emergency response procedures, selection of respiratory protection, chemical protective clothing, and chemical storage methods.

Handbook of Industrial Surfactants. By Michael Ash and Irene Ash; Synapse Information Resources: Endicott, NY, 2000; 2 volumes, 2500 pp (CD version available).

Contains almost 26000 trade name references and 4000 chemical component cross-references, with information on uses, properties, toxicology, safety, and regulatory issues; function/application index; and manufacturers' directory.

Secondary Plant Products; Antinutritional and Beneficial Actions in Animal Feeding. Edited by John C. Caygill and Irene Mueller-Harvey; Nottingham University Press: Nottingham, U.K., 1999; 136 pp.

Summary of conference proceedings; contains overviews of secondary plant products in general and tannins, trypsin inhibitors, and lectins in particular.

Environmental Contaminants in Food. By Colin Moffat and Kevin Whittle; CRC Press: Boca Raton, FL, 1999; 320 pp.

Presents methods of modern instrumental analysis with specific analytes; discusses techniques for quantifying trace levels of specific organic contaminants.

Food Toxicology. By William Helferich and Carl Winter; CRC Press: Boca Raton, FL, 2000; 240 pp.

Discusses natural and synthetic food toxins; potential toxicity and antitoxicity of food additives; types of food allergens and their diagnoses; safety of genetically engineered food products.

Microbial Food Contamination. By Charles L. Wilson and Samir Droby; CRC Press: Boca Raton, FL, 2000; 344 pp.

Covers incidence, nature, detection, monitoring, control, international trade impacts, and health effects of bacterial, fungal, and viral food contaminants.

Food Chemicals Codex. 4th ed.; Institute of Medicine, CRC netBASE 2000 (CD-ROM); CRC Press: Boca Raton, FL (in cooperation with National Academy Press), 1999.

Full-text searchable version of the *Food Chemicals Codex*, 4th ed.

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