

Continuous crystallizers for fractionation of fatty chemicals

Continuous cooling crystallizers are often used for fractionation of fatty chemicals. Typical uses include: fractionation of tallow and tall oil fatty acids, mono- and di-glycerides purification, winterization of some edible oils, palm/palm kernel oil fractionations, crystallization of salts of fatty acids, fatty alcohols fractionation, and similar processes.

Scraped surface crystallizers may also be used to cool viscous materials, such as lecithin or dimerized fatty acids.

Pilot plant crystallizers are available to rent to test new processes.

Fabrication is available at our shops in the USA, Scotland, or Singapore.

Armstrong Engineering Associates, Inc.

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New publications

Subscriptions to **Medicinal & Aromatic Plants Abstracts**, a bimonthly abstracting journal reporting world literature on medicinal and aromatic plants, can be ordered from the Publications & Information Directorate, CSIR, Hillside Road, New Delhi 110012, India, for \$17.

Colloque Sur La Lipochimie Industrielle, proceedings of a 1980 symposium on industrial lipochemistry, is available from l'Institut des Corps Gras, 10/A rue de la Paix, 75002 Paris.

Fats and Oils: Chemistry and Technology, edited by R.J. Hamilton and A. Bhati, Applied Science Publishers, 22 Rippledale Commercial Estate, Ripple Road, Barking Essex IG110SA, England, 1980, 255 pp., \$48.

Optimizing Chemical Laboratory Performance through the Application of Quality Assurance Principles, Association of Official Analytical Chemists, 1111 N. 19th St., Arlington, VA 22209, 1981, 160 pp., \$28. Proceedings of an AOAC symposium held in Washington, DC, October 22-23, 1980.

Test Protocols for the Environmental Fate and Movement of Toxicants, Association of Official Analytical Chemists, 1111 N. 19th St., Arlington, VA 22209, 1981, 336 pp., \$30. Proceedings of an AOAC symposium held in Washington, DC, October 21-22, 1980.

Manufacturing Technology Horizons, a bimonthly digest on new production technology written for manufacturing

and engineering executives, will begin publication in January 1982 and can be ordered from Tech Tran Corp., 134 N. Washington St., Naperville, IL 60540.

Fire Protection Handbook, Publications Sales Div., National Fire Protection Assoc., Batterymarch Park, Quincy, MA 02269, 1981, 1400 pp., \$53.95.

Cottonseed Cookery, recipes for glandless cottonseed, published by Food Protein Research and Development Center, Texas Engineering Experiment Station, Texas A&M University, College Station, TX 77843, and Cotton Inc.; 48 pp., single copy available at no charge from the Food Protein Research and Development Center.

1981 Annual Book of ASTM Standards, American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103. Includes 175 standards on general test methods, nonmetal; statistical methods; space simulation; laboratory apparatus and more; 1,142 pp., 6x9 soft cover, \$52 from ASTM. □

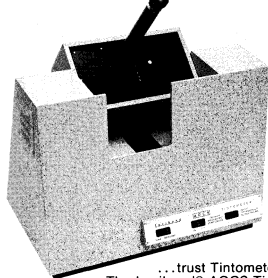
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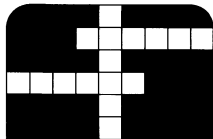
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- Essential Fatty Acid Supplemented Diet Increases Renal Excretion of Prostaglandin E₂ and Water in Essential Fatty Acid Deficient Rats
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METHODS

- Separation of Molecular Species of Ceramides as Benzoyl and *p*-Nitrobenzoyl Derivatives by High Performance Liquid Chromatography
- Potential Bile Acid Metabolites: IV. Inversion of 7 α -Hydroxyl; Ursodeoxycholic Acid

COMMUNICATIONS

- Production of Prostaglandins in Homogenates of Kidney Medullae and Cortices of Spontaneously Hypertensive Rats Fed Menhaden Oil

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