

Publications

Book reviews

Encyclopedia of Emulsion Technology, Vol. 2, Applications, edited by Paul Becher (Marcel Dekker Inc., 270 Madison Ave., New York, NY 10016, 1985, 521 pp., \$95 US and Canada, \$114 elsewhere).

This is the second in a series of volumes devoted to the science and technology of emulsions. Basic theory was presented in Volume 1. With the exception of a chapter on research techniques utilizing emulsions (which logically might have been included in Volume 1) and a very useful updated bibliography on the concept and applications of the hydrophile-lipophile balance (HLB), the book deals with applications of emulsions, including medical and pharmaceuticals, agricultural, cosmetic and food industry. The chapters vary as to the depth in which they deal with the subject matter. De-emulsification, application of emulsions in agriculture, and medical and pharmaceutical applications are discussed in admirable detail, referring to basic theory when necessary but also covering highly practical aspects such as industrial machinery used for breaking emulsions. At the least, a volume such as this can provide a summary of the published literature on a given subject. Volume 2 goes a considerable length beyond this minimum and provides

the reader with excellent overviews of the applications of emulsions in a number of important technical fields. As such, it is a highly useful addition to the libraries of workers in these fields. The book is marred by more than a respectable number (over 50) of typos, errors, incomplete formulas and similar mistakes.

Arno Cahn
Arno Cahn Consulting Services Inc.
Pearl River, NY 10965

New books

The IBM PC Enhancement Handbook for Scientists and Engineers: Data Acquisition & Instrumentation on your IBM PC, XT or AT, by Richard A. Eckhardt, Matthew F. Kubitsky and Robert C. Molloy, CyberResearch Inc., PO Box 9565, New Haven, CT 06536, softcover, 1985, 64 pp., 75 illustrations, \$9.95.

Sunflower Production and Pest Management (Bulletin 25), North Dakota State University, Ag. Communications Dept., Bulletin Room, Morrill Hall, NDSU, Fargo, ND, 1985, \$5.

The Compact Dictionary of Food Technology, by Erich Luck, B. Behr's Verlag GmbH & Co., Averhoffstrasse 10, D-2000 Ham-

burg 76-T, West Germany, hardcover, 1985, 445 pp.

Waschmittel—Aufgaben in Hygiene und Umwelt, by H. Stache and H. Grossman, Springer HmbH & Co., Auslieferungsgesellschaft, Postfach 10 51 60, Haberstrasse 7, D-6900 Heidelberg 1, West Germany, 1985, 145 pp.

Handbook of Reactive Chemical Hazards, Third Edition, by L. Bretherick, Butterworth Publishers, 80 Montvale Ave., Stoneham, MA 02180, hardcover, 1985, 1852 pp., \$99.95.

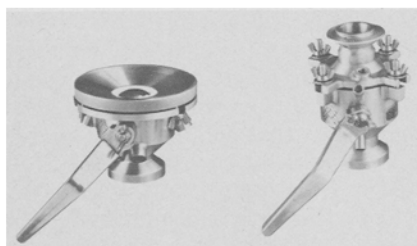
Vitamin D—Chemical, Biochemical and Clinical Update, ed. by A.W. Norman, K. Schaefer, H.G. Grigoleit and D.V. Gerrath, Walter de Gruyter Inc., 200 Saw Mill River Rd., Hawthorne, NY 10523, hardcover, 1985, 1249 pp.

From The Soyfoods Center, PO Box 234, Lafayette, CA 94549:

Tofutti and Other Soy Ice Creams: Non-Dairy Frozen Desert Industry and Market (2 vols.), by William Shurtleff and Akiko Aoyagi, 1985, Vol. 1, 144 pp.; Vol. 2, 214 pp.; \$135 first set, \$95 additional set.

Soya: Computerized Bibliographic Database on Soybean Utilization Processing, Marketing, Nutrition, Production and History, 1100 B.C. to the Present, over 11,500 bibliographic records, monthly updates, 45¢ per record, minimum charge \$45.

New Products



BALL VALVES

Ball valves designed for use in particulate aseptic packaging lines are available from Fluid Transfer. Both the flush bottom and two-way ball valves range in size from 1.5–4 and feature steam tracing around

the seals and Type 316 and 316L stainless steel and mica-filled Teflon construction. The valves are rated for 300 psig and full vacuum at a maximum operating temperature of 500 F. Contact: Fluid Transfer, Div. of Lee Industries Inc., PO Box 471, Philipsburg, PA 16866.

ENTERING MIXER

Neptune Mixer Co.'s Series "H" high viscosity bung entering mixer fits into 2 bung openings on 55-gallon drums. The 18 different models have viscosity capabilities

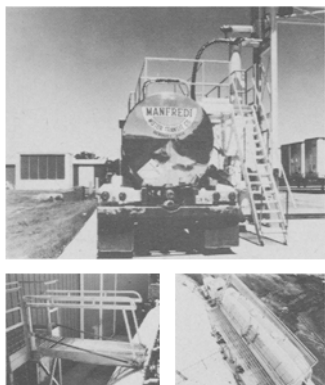
ranging up to 8000 cps. The standard electric motor is single-phase, but a three-phase electric motor is available, as are air motors and explosion-proof motors for flammable environments. Parts come in 316SS or Alloy 20. Contact: Neptune Mixer Co., Div. of R.A. Industries Inc., PO Box 247, Lansdale, PA 19446.

HPLC SOLVENT HANDLER

Kontes' Ultra-ware HPLC solvent handling system includes Ultra-ware reservoirs with conical bottoms designed to eliminate the

New Products

practice of tilting reservoirs to achieve maximum immersion of inlet filters. The system features an integrated set of glassware for filtering, degassing and delivering solvent for HPLC or synthesizer systems. Contact: Kontes, PO Box 729, Vineland, NJ 08360.



ACCESS EQUIPMENT

Carbis is distributing Benko Products' G-Raff line of tank car access equipment. The seven G-Raff models are designed to provide single manhole, multiple port or hopper car access depending on need. The platform can be adjusted mechanically. Contact: Carbis, PO Box 6229, Dept. N-84, Florence, SC 29502.

HYGROMETER/THERMOMETER

Humidity and temperature can be monitored with the Chemtrix combination hygrometer/thermometer designed for lab use. The temperature scale measures -10 to 120 F, with the hygrometer gauging 0 to 100% humidity. The Polytherm humidity sensor can be regenerated for permanent $\pm 3\%$ accuracy. Silver-chrome case is 6" in diameter. Contact: Chemtrix, Whatman Lab-sales Inc., 5285 NE Elam Young Parkway, Suite A-400, Hillsboro, OR 97124.

OXYGEN ANALYZER

Ingold Electrodes Inc. has developed an oxygen analyzer to measure dissolved oxygen levels in vegetable oil in tank cars, vessels, process lines and consumer packages. The portable analyzer is available in battery and line-powered versions, with readout capability in O₂ or

ppm. Resolution is .01% or 10 ppb. The instrument is designed to permit low flow rates and air calibration. Contact: Ingold Electrodes Inc., 261 Ballardvale St., Wilmington, MA 01887.

RECORDER/DATA LOGGER

A complete computer interface via RS-232 or 20mA current loop is part of Kent Process Control Inc.'s 32-channel data logger and strip chart recorder. The instrument calculates mass flow, BTU content, totalization and F_o factor for monitoring steam sterilization. Features include automatic cold junction compensation and built-in linearization for 12 thermocouple types and four RTDs. Contact: Kent Process Control Inc., 165 Fieldcrest Ave., PO Box 6494, Edison, NJ 08818.



POLYMER COOLERS

Nalco Chemical Co. is using recently developed polymers in its All-Organic, A•Z•Lite and Phosperse-Plus treatments. The company claims the addition of the new polymers to the cooling water treatments is more cost effective because the polymers provide greater dispersancy at lower dosages. Contact: Nalco Chemical Co., One Nalco Center, Naperville, IL 60566.

SFC SYSTEM

Capillary supercritical fluid chromatography (SFC) is a new analytical method offered by Lee Scientific. Lee claims SFC provides faster analysis than liquid chromatography. SFC uses gas compressed to near-liquid densities to obtain high-resolution separation of polar, nonvolatile and thermally unstable compounds. Contact: Lee Scientific, 4426 S. Century Drive, Salt Lake City, Utah 84123.

SPECTROPHOTOMETER

Shimadzu Scientific Instruments Inc. has available a double-monochromated recording spectrophotometer. The U-V 3000 has dual wavelength scanning across the UV/Vis spectrum and symmetrical double beam optics. Other features include six operating modes, "one-touch" recall of operating parameters and a built-in microcomputer for time-course, real-time or processed derivative spectra. Contact: Shimadzu Scientific Instruments Inc., 7102 Riverwood Dr., Columbia, MD 21046.

TANK GAUGE

The Flex 1000 tank gauging system from GPE Controls uses microprocessor control to continuously monitor tank levels and liquid movement. The system is equipped with an alarm to provide for leak detection, spill prevention, pilferage reduction and helps meet EPA requirements. Contact: GPE Controls, 6511 Oakton St., Morton Grove, IL 60053.

TURBO TITRATOR

Baird and Tatlock's Turbo titrator is a volumetric titrator designed for rapid moisture measurement where moisture content ranges from .01 to 100%. Features include a built-in homogenizer, fully enclosed reaction vessels, interlocks which prevent the unit from operating when open and an enclosed reagent pumping system to minimize fume discharge. Contact: Freeman, Gerdes & Co. Inc., 41 Washington Ave., Pleasantville, NY 10570.

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