

# Publications

## Book Reviews

**Electrical Phenomena at Interfaces: Fundamentals, Measurements and Applications (Surfactant Science Series, Vol. 15)**, edited by Ayao Kitahara and Akiro Wantanabe (Marcel Dekker Inc., 270 Madison Ave., New York, NY 10016, 1984, 463 pp., \$79.50 U.S. and Canada, \$95.25 elsewhere).

In the first section of this volume, the fundamentals of electrical phenomena at interfaces are treated in chapters on surface electricity, the electrical double layer, the interaction of the electrical double layers and colloid stability, electrokinetics and nonaqueous systems. Section two deals with experimental techniques in chapters on electrocapillary measurements, electrokinetic measurements and stability measurements of disperse systems. The principles and techniques discussed in the first two sections are applied in the third section to problems in detergency, flotation, fibers, paper, electrocapillary emulsification, pigments and paints, cosmetics, corrosion protection, biological systems and electrophoretic copying. All of the chapters are by Japanese contributors who acquaint the reader with the voluminous literature authored by Japanese scientists on these topics. The level of the various discussions generally is high. The section on fundamentals particularly is of exceptional clarity and the discussion is complete and consistent. Chapters in the applications section refer back to the fundamentals, providing a certain amount of helpful repetition. The language is clear and crisp. Except for a few instances of imperfect translations, it might well have been written by U.S. authors. The book is somewhat marred by an excessive number of typographical errors (this reviewer counted more than 15). Neither shortcoming, however, can detract from the high quality of this volume. It is an excellent reference work for anyone wishing to fortify empirical knowledge with an excellent guide to the theoretical literature on electrical phenomena at interfaces.

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**New Pathways for Organic Synthesis: Practical Applications of Transition Metals**, by H.M. Colquhoun, J. Holton, D.J. Thompson and M.V. Twigg (Plenum Publishing Corp., 233 Spring St., New York, NY 10013, 1984, 454 pp., \$59.50 U.S. and Canada, 20% higher elsewhere).

In this book, the authors have compiled a large number of transition metal-based procedures that are very useful in organic synthesis. The book is not organized on the basis of the transition metal being

employed, but rather according to the type of compound being prepared (e.g., aldehyde) or to the synthetic transformation being performed (e.g., oxidation). Each chapter contains subheadings and sub-subheadings which make locating a synthetic procedure of interest very easy. In addition, there are a subject index, a compound index and many cross references. The text is very "readable." Many illustrative examples are given together with complete experimental details. There is an extensive list of references to the original literature. A chapter also is included on the preparation and handling of transition metal catalysts. This book will be of great value to the practicing synthetic chemist trying to keep up with the myriad of new reagents being introduced into organic synthesis. Because of its practical aspects, it also will be of great value to the chemist or other scientist who only occasionally is called upon to synthesize a required compound.

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## New Publications

From McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, NY, 10020:

**McGraw-Hill Dictionary of Biology**, 1985, 384 pp., \$15.95, paperback.

**McGraw-Hill Dictionary of Chemical Terms**, 1985, 470 pp., \$15.95, paperback.

**McGraw-Hill Dictionary of Physics**, 1985, 646 pp., \$15.95, paperback.

**Food, Nutrition, and Health**, by Fergus M. Clydesdale and Frederick J. Francis, AVI Publishing Co., 250 Post Rd. E., PO Box 831, Westport, CT 06881, 1985, 293 pp., \$22.00.

**Computer Modeling of Chemical Processes**, by J.D. Seader, American Institute of Chemical Engineers (AIChE), 345 E. 47 St., New York, NY 10017, 1985, 52 pp., \$10 AIChE members, \$18 nonmembers.

**The Role of Fats in Human Nutrition**, by F.B. Padley and F. Podmore, VCH Publishers, 303 NW 12th Ave., Deerfield Beach, FL 33442, 1985, 210 pp., \$41.00.

**Cosmetic Analysis**, edited by P. Bore, Marcel Dekker Inc., 270 Madison Ave., New York, NY 10016, 1985, 552 pp., \$85.00 (U.S. and Canada), \$102.00 (other countries).

**Lipid Metabolism and Its Pathology**, edited by M.J. Halpren, Plenum Publishing Corp., 233 Spring St., New York, NY 10013, 1985, 256 pp., \$49.50 U.S. and Canada, \$59.40 elsewhere.

**Regulatory Chemicals of Health and Environmental Concern**, by William H. Lederer, Van Nostrand Reinhold Co. Inc., 115 Fifth Ave., New York, NY 10003, 1985, 304 pp., \$38.50.

## Publications

**Endocoids**, edited by Harbans Lal, Frank LaBella and John Lane, Alan R. Liss Inc., 41 E. 11th St., New York, NY 10003, 1985, 560 pp., \$78.00.

**Guidelines for Hazard Evaluation Procedures**, Center for Chemical Plant Safety, American Institute of Chemical Engineers' Publication Sales Department, 345 E. 47th St., New York, NY 10017, 1985, 200 pp., \$35 AICChE members, \$75 nonmembers.

## New Products

### pH ELECTRODES

Cedar Grove Division, Beckman Industrial Corp., has introduced a line of combination pH electrodes, Model VSpH[ ]-S. The plastic body electrodes were designed for in-line service in such applications as cooling tower blowdown, effluent monitoring and waste water monitoring. They can be equipped with either a 3/4" or 1" fitting and are designed to measure 0-11 pH and up to 100 psi at 105 C. Contact: Cedar Grove Division, Beckman Industrial Corp., 89 Commerce Rd., Cedar Grove, NJ 07009.

### VALVE ACTUATORS

Foxboro/Jordan, a division of the Foxboro Co., offers a series of electric valve actuators, the MV-1100. The actuators, designed to meet final control element requirements for varied valve sizes, can be positioned from an analog (4 to 20 mA) signal or contact closures. They are rated for IEC IP65, NEMA Type 4 and hazardous locations. Contact: R. W. Minue, Foxboro/Jordan, 5607 W. Douglas Ave., Milwaukee, WI 53218.

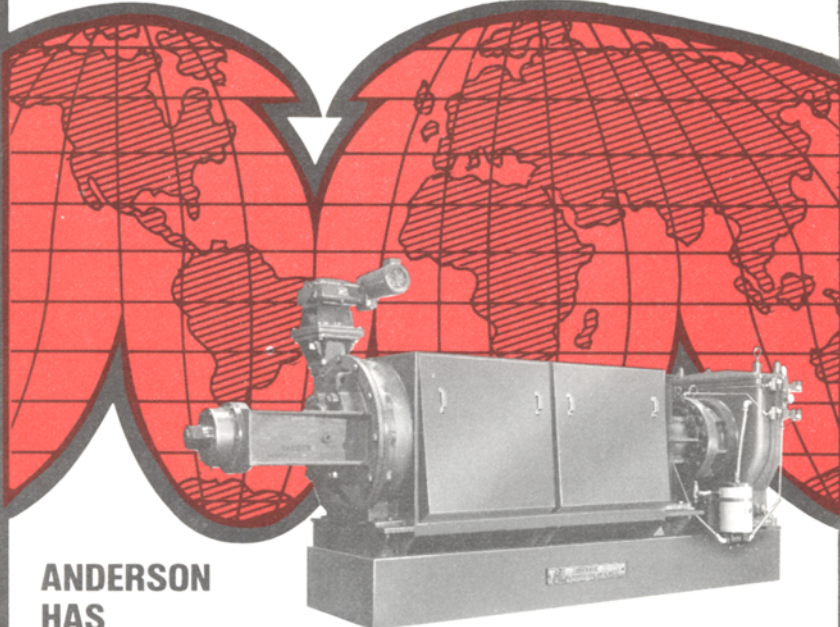
### WEIGHT INDICATOR

Fairbanks Weighing Division, Colt Industries, has introduced the Model H90-165 digital weight indicator for hostile environments. The instrument features auto-tare, permitting tare setting with the empty container on the scale. Pushbutton manual tare also is available. The model is housed in a water-washdown enclosure to withstand harsh environments. Contact: Fairbanks Scales, Dept. PR8510, St. Johnsbury, VT 05819.

### New review journal in cardiology

**Current Opinion in Cardiology**, a new bimonthly review journal covering the latest advances in cardiology, is being published by Gower Academic Journals, a division of Gower Medical Publishing Ltd. For more information, contact Gower Medical Publishing, Middlesex House, 34-42 Cleveland St., London W1P 5FB, United Kingdom.

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