

# Publications

## Book review

**Modern Size-Exclusion Liquid Chromatography**, by W.W. Yau, J.J. Kirkland and D.D. Bly (John Wiley and Sons, New York, NY, 1979, 476 pp., \$24.95), and **Gel Chromatography**, by T. Kremmer and L. Boross (John Wiley and Sons, New York, NY, 1979, 299 pp., \$45).

While dealing with essentially the same topic, these two books from the same publisher are as different as night and day. Kremmer and Boross focus primarily on 50-100 micron particle size soft gels. At times, one has the impression that the Bio-Rad products are mentioned periodically solely to avoid the book being classed as a text on the uses of Sephadex. Emphasis is on proteins, biological polymers and small molecules. Industrial polymers are covered in a scant eight pages. Literature coverage extends into 1976. Yau, Kirkland and Bly focus primarily on 10 micron or smaller particles and for practical purposes consider only the semirigid (i.e., crosslinked styrene/divinylbenzene copolymer) or rigid (porous silica) particles. Emphasis is on high efficiency packings used at pressures up to 3000 psig or higher to provide analytical data in minutes rather than hours or days. At this time, these packings are best used for synthetic polymers. The authors draw heavily on their experience with DuPont packings and polymer samples but all relevant packings such as the LiChrosphere series,  $\mu$ Porasil, the Spherosil XOA series and the  $\mu$ Bondagel-E series receive good coverage. Chemical modifications of the wide pore silicas, such as the bonded diol phase, provide the necessary transition to biological polymers including peptides and proteins. Development of packings for HPSEC is an active research area. Although currently available commercial products have certain limitations, future prospects appear bright. One significant problem is, of course, the mechanical fragility associated with increasing pore size in rigid particles. A strong preference is expressed by the authors for the silica-based packings, but a wider literature currently is available on the semirigid packings. Literature coverage extends through 1977.

The Kremmer and Boross book is probably most relevant to the investigator seeking to separate biopolymers, particularly proteins and peptides, at this time. This is especially true if work is being conducted on even a small-scale preparative basis. On the other hand, while possibly premature in some biochemical areas, the Yau book is obviously the direction for the future. This book is to HPSEC as the first edition of the Snyder and Kirkland text was to HPLC. Since Kremmer and Boross barely touch on the synthetic polymers which are covered in detail by Yau et al., the theoretical treatments are somewhat different. Similarly, discussions of instrumentation and techniques differ markedly for the different particle size packings and pressure ranges used. Both volumes have clear texts with good figures. The Kremmer and Boross book has occasional awkward passages or usages resulting from translation from Hungarian. In the last few years, Wiley and Sons-Wiley Interscience has published an amazingly good series of books in the chromatography area at relatively reasonable

prices. The depth of coverage is well illustrated by these two volumes which deal with essentially the same area from rather diametrically opposite viewpoints. Since size exclusion chromatography is in transition to HPSEC, both books are necessary to anyone working with this technique.

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## New publications

**National Soybean Processors Association 1980-81 Yearbook and Trading Rules**, 120 pp.; \$5 for NSPA members, \$10 for nonmembers; order from NSPA, 1800 M St. NW, Washington, DC 20036.

**Proceedings, 10th Scandinavian Symposium on Lipids**, 303 pp., \$24, contains approximately 50 papers presented during the symposium held during June 1979 in Nyborg, Denmark, under sponsorship of Lipidforum. Order from Lipidforum c/o SIK, Box 27022, S-400 23 Goteborg, Sweden. 1977 proceedings available for \$12.

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## Publications

**Directory on Scandinavian Lipid Research and Technology**, second edition, compiled by Reinhard Marcuse, \$12, ca. 100 pp. A listing of firms and other organizations involved in physiological-medical research, research other than physiological-medical, and firms in the fats and oils industry. Order from: Lipidforum c/o SIK, Box 27022, S-400 23 Goteborg, Sweden.

**Rheology**, Vol. 1: Principles, Vol. 2: Fluids, Vol. 3: Applications, edited by G. Astarita, G. Marrucci and L. Nicolais, 1980, Vol. 1—\$45, Vol. 2—\$69.50, Vol. 3—\$69.50, Plenum Publishing Corp., 227 W. 17th St., New York, NY 10011.

**Cell Surface Glycolipids**, edited by C.C. Sweeley, 1980, 504 pp. \$44.50. Presents advances in the study of glycolipid biochemistry at the cell surface, including information about the chemistry, metabolism and biological functions of the glycolipids. American Chemical Society, 1155 16th St., NW, Washington, DC 20036.

**Fatty Acids Manufacture: Recent Advances**, edited by J.C. Johnson, 1980, 489 pp., \$54. Describes practical syntheses and manufacturing methods for fatty acids used by major chemical companies. Noyes Data Corporation, Mill Road at Grand Ave., Park Ridge, NJ 07656.

**Silylated Surfaces**, edited by D.E. Leyden and W. Collins, 1980, 379 pp., \$63.50. Volume 7 in a series presenting the proceedings of symposia held at the Midland Macromolecular Institute. Gordon and Breach, Science Publishers, Inc., One Park Ave., New York, NY 10016.

**Lipids in Evolution**, by W.R. Nes and W.D. Nes, 1980, 244 pp. \$29.50. Examines the similarities and differences of lipids in various biological contexts and correlates this information with evolutionary parameters. Plenum Publishing Corp., 227 W. 17th St., New York, NY 10011.

**Handbook of International Food Regulatory Toxicology, Vol. 1: Evaluations**, by G. Vettorazzi, 1980, 161 pp., \$30, SP Medical & Scientific Books, 175-20 Wexford Terrace, Jamaica, NY 11432.

**Soviet Scientific Reviews, Section B: Chemistry Reviews, Vol. 2**, edited by M.E. Vol'pin, 1980, 469 pp., \$90. Second in a series of accounts of recent scientific advances in the USSR. Harwood Academic Publishers, PO Box 786, Cooper Station, New York, NY 10003.

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