

# New Books

## Organic Analysis, Vol. 3.

JOHN MITCHELL, JR., I. M. KOLTHOFF, E. S. PROSKAUER, and A. WEISSBERGER, editorial board. viii + 546 pp. Interscience Publishers, Inc., New York-London (250 Fifth Ave., New York 1, N. Y.). 1956. \$11.50. Reviewed by F. A. GUNTHER, University of California Citrus Experiment Station, Riverside.

THE EDITORS of this series state that the volumes of "Organic Analysis" are designed to present an up-to-date picture of techniques for direct analyses of organic systems, particularly for functional groups. One of the very important functions of this series is to provide the practicing chemist with a critical and reliable survey of important analytical methods and procedures; this function is clearly performed in most of the chapters in all three volumes to date.

Subjects covered in Volume 3 are: determination of organic acids, by J. Mitchell, Jr., B. A. Montague, and R. H. Kinsey (95 pp.); determination of acid anhydrides, by C. W. Hammond (32 pp.); determination of amines and amides, by E. F. Hillenbrand, Jr., and C. A. Pentz (73 pp.); determination of olefinic unsaturation, by A. Polgár and J. L. Jungnickel (184 pp.); analytical mass spectrometry, by V. H. Dibeler (55 pp.); and synthetic organic coating resins, by O. D. Shreve (66 pp.). The 38-page index in this volume is cumulative for all three volumes but includes reference to major subjects only, for Volumes 1 and 2. As with the previous volumes, full procedural details are given for all methods critically recommended by the individual authors.

All six chapters are welcome and worthwhile additions to the workshelves of any chemist, for each author has tried to indicate both advantages and limitations of the analytical reactions, of the techniques, and of the equipment ancillary to the determination in question. The mechanics of the actual, final measurement of the amount of a species present may not interest nonanalytical chemists; however, such chemists can hardly fail to be interested in (and to profit from) learning the details of how and why analytical chemists utilize particular isolative tools and techniques. The chapter by Polgár and Jungnickel is especially noteworthy in this regard and will, in this reviewer's opinion, long remain a classic in completeness, authority, and succinctness.

This series of books on organic analysis should be in the personal library of every chemist, not as reference books, but as books to be studied thoroughly, carefully, and often.

## Forest Tree Fertilization

"Forest Tree Fertilization" abstracts selected references on the use of fertilizer in forest management, and reports on the status of forest fertilization. It was prepared by a special "task force" of the National Plant Food Institute's research and education committee. On the task force were Borden S. Chronister, W. F. Nichols, and E. T. York, Jr. The task force concludes that "extensive fertilizer usage in forestry must await the development of information indicating the response which can be expected therefrom. When such information is available, we shall then be in a better position to evaluate the economic feasibility of fertilizers on the bulk of our forest land."

The 39-page booklet is available from W. H. Garman, National Plant Food Institute, 1700 K. St., N.W., Washington 6, D. C.

## Statistics on Fertilizers And Liming Materials

This 180-page, paper-bound book collects in a convenient volume the many fertilizer and lime statistics collected every year by the Department of Agriculture. Included in the handbook are data on production, consumption, imports, exports, and domestic movement of most fertilizer materials. It was prepared by A. L. Mehring, J. Richard Adams, and K. D. Jacob. It can be obtained by writing the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Ask for Statistical Bulletin 191. Price is \$1.00.

## LITERATURE AVAILABLE

**Dry Processing Equipment Catalog.** Air separators and their use in closed-circuit grinding, Micronizer fluid energy mills for grinding, and rotary batch blenders described in 8-page catalog. Information on crushing and grinding machines, fertilizer machinery also given. Dept. A&F, STURTEVANT MILL CO., Boston 22, Mass.

**Dust and Fume Eliminator.** Vertical rotor-type dust and fume eliminator features low over-all height to fit

into trusses. Bull. VRU-4-57, Dept. A&F, SCHMIEG INDUSTRIES, INC., 23930 Sherwood, Centerline, Mich.

**Dust Separator.** Twelve-page bulletin discusses design improvements and applications of heavy duty cyclonic dust separator. Featured are air-flow resistance and dust-recovery curves, temperature- and pressure-correction formulas, and accessories. Bull. 576, Dept. A&F, THE DAY SALES CO., 810 Third Ave. N.E., Minneapolis 13, Minn.

**Hydrolyzed Vegetable Proteins.** Technical booklet describes line of hydrolyzed vegetable proteins available in liquids, pastes, and powders. Write Dept. A&F, HURON MILLING DIVISION, HERCULES POWDER CO., Wilmington 99, Del.

**Mineral Elements.** Highlights of a symposium on mineral elements in animal nutrition compiled in booklet for nutritionists. Dept. A&F, Technical Service, Feed Ingredients Department, INTERNATIONAL MINERALS & CHEMICAL CORP., 20 North Wacker Drive, Chicago 6, Ill.

**Miticide and Scalicide.** USDA registration obtained for use of Chipman 6199 on non-bearing citrus. Kills red mites (purple mites), rust mites, and various scale insects on all types of citrus. Technical service bulletin from Dept. A&F, CHIPMAN CHEMICAL CO., INC., Bound Brook, N. J.

**Proteins and Amino Acids.** Fourth edition of booklet "Proteins and Amino Acids in Animal Nutrition," by H. J. Almquist, brings up to date data on amino acid requirements of common livestock. Dept. A&F, Feed Products Division, U. S. INDUSTRIAL CHEMICALS CO., 99 Park Ave., New York 16, N. Y.

**Pulverizer.** Color-illustrated booklet with cutaway views and circuit diagrams describes construction and operation features of air-swept pulverizer. Dept. A&F, SCHUTZ-O'NEILL CO., 345 Portland Ave., Minneapolis 15, Minn.

**Wetting Agent and Penetrant.** Product, known as Monawet MM-80%, is chemically the sodium salt of di-hexyl-sulfosuccinic acid. It is useful in aqueous pesticidal sprays where the toxicant is water soluble. Brochure 212a and samples, Dept. A&F, MONA INDUSTRIES, INC., Chemical Division, Paterson 4, N. J.