

Other criticisms include the placement of Chapter 16, "Non-Steroidal Antiinflammatory Agents." This chapter should logically precede and not succeed the other two chapters on nonsteroidal anti-inflammatories (Chapters 14 and 15).

In summary, "Inflammation and Antiinflammatories" is a well organized and well-written review on the current concepts of the field. It will prove a valuable resource to the laboratory investigator as well as to the clinician.

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**Recent Advances in the Chemistry of  $\beta$ -Lactam Antibiotics.** Edited by J. ELKS. The Chemical Society, Burlington House, London W1V 0BN, England. 1977. 313 pp. 14 × 21 cm. Price \$29.00.

This volume consists of 32 papers presented at a Chemical Society Symposium held in June 1976 in Cambridge, England. Included are two papers on the biosynthesis of  $\beta$ -lactams, nine papers dealing primarily with modification or incorporation of unique side chains on the penam or cephem nucleus, and 15 papers on the synthesis of the  $\beta$ -lactam ring systems or incorporation of substituents into the cephem or penam ring systems. While most papers in the last group deal with the synthesis of penicillins or cephalosporins, Ajay Bose discusses his general  $\beta$ -lactam synthesis. Also of special note are the papers outlining synthetic approaches to the biologically interesting 3-chloro and 3-hydroxy cepheps.

The remaining six chapters include a paper on extraction of cephalosporins from fermentation broth, a chiroptical study of penicillins, a study of the nonenzymatic hydrolysis of  $\beta$ -lactams, and a review by R. B. Woodward of the work at the Woodward Research Institute. Also included are one paper on the norcardicins, monocyclic  $\beta$ -lactams with antibacterial activity, and one paper covering clavulanic acid, a bicyclic  $\beta$ -lactam, which is a potent irreversible inhibitor of  $\beta$ -lactamase enzymes.

Although the prime emphasis of this volume is the chemistry of  $\beta$ -lactam antibiotics, nine chapters contain tables of antibacterial activity of various analogs. As with most symposium volumes, no subject or author indexes are included. With the exception of Woodward's article, which contains no references, the papers are for the most part adequately referenced (references into the early 1976 literature are included). As is expected in a symposium paper, some authors make liberal use of references to unpublished results.

This volume is a valuable updating of the voluminous literature on  $\beta$ -lactam antibiotic chemistry. It should prove to be a useful information source not only to individuals involved in antibiotic research but also to individuals with teaching responsibilities in this field.

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## NOTICES

*Phenomenology and Treatment of Schizophrenia.* Edited by WILLIAM E. FANN, ISMET KARACAN, ALEX D. POKORNY, and ROBERT L. WILLIAMS. Spectrum, 175-20 Wexford Terrace, Jamaica, NY 11432. 1978. 549 pp. 15 × 23 cm. Price \$30.00.

*Predicting the Properties of Mixtures: Mixture Rules in Science and Engineering.* By LAWRENCE E. NIELSEN. Dekker, 270 Madison Ave., New York, NY 10016. 1978. 96 pp. 15 × 23 cm. Price \$12.50.

*Receptors in Pharmacology. (Modern Pharmacology-Toxicology Series, Vol. 11).* Edited by JOHN R. SYMTHIES and RONALD J. BRADLEY, Jr. Dekker, 270 Madison Ave., New York, NY 10016. 1978. 506 pp. 15 × 23 cm. Price \$45.00.

*Current Chemotherapy. Vols. I and II. Proceedings of the 10th International Congress of Chemotherapy.* Edited by WALTER SIEGENTHALER and RUEDI LUTHY. American Society for Micro-

biology, 1913 I St., N.W., Washington, DC 20006. 1978. Vol. I, 736 pp.; Vol. II, 1361 pp. 17 × 26 cm. Price \$75.00 (two-volume set).

*Zinc and Copper in Clinical Medicine.* Edited by K. MICHAEL HAMBIDGE and BUFORD L. NICHOLS, Jr. Spectrum, 175-20 Wexford Terrace, Jamaica, NY 11432. 1978. 132 pp. 15 × 23 cm. Price \$15.00.

*The Molecular Biology of Animal Viruses, Vol. 2.* Edited by DEBI PROSAD NAYAK. Dekker, 270 Madison Ave., New York, NY 10016. 1978. 1006 pp. 15 × 23 cm. Price SFr. 140.—

*pH Measurements.* By C. CLARK WESTCOTT. Academic, 111 Fifth Ave., New York, NY 10003. 1978. 172 pp. 15 × 23 cm. Price \$16.00.

*Behavioral Neurology. 2nd Ed.* By JONATHAN H. PINCUS and GARY J. TUCKER. Oxford University Press, 200 Madison Ave., New York, NY 10016. 1978. 284 pp. 12 × 21 cm. Price \$5.95 (paper), \$11.95 (cloth).

*Behavioral Tolerance: Research and Treatment Implications. NIDA Research Monograph 18.* Edited by NORMAN A. KRASNEGOR. National Institute on Drug Abuse, 5600 Fishers Lane, Rockville, MD 20852. 1978. 151 pp. 14 × 24 cm.

*Neisseria gonorrhoeae and Gonococcal Infections.* World Health Organization, 49 Sheridan Ave., Albany, NY 12210. 1978. 142 pp. 13 × 20 cm. Price \$5.40.

*Handbook of Clinical Pharmacology.* By FELIX BOCHNER, GEORGE CARRUTHERS, JENS KAMPMANN, and JANICE STEINER. Little, Brown, 34 Beacon St., Boston, MA 02106. 1978. 313 pp. 11 × 20 cm. Price \$9.95.

*Handbook of Clinical Drug Data. 4th Ed.* By JAMES E. KNOBEN, PHILIP O. ANDERSON, and ARTHUR S. WATANABE. Drug Intelligence Publications, Hamilton, IL 62341. 1978. 467 pp. 11 × 18 cm.

*Nursing Pharmacology: A Systems Approach to Drug Therapy and Nursing Practice.* By ALVIN K. SWONGER. Little, Brown, 34 Beacon St., Boston, MA 02106. 1978. 329 pp. 19 × 24 cm. Price \$9.95.

*Respiratory Tract Mucus. Ciba Foundation Symposium 54 (new series).* Elsevier Scientific, 52 Vanderbilt Ave., New York, NY 10017. 1978. 334 pp. 16 × 24 cm.

*The Economics of Medical Malpractice.* Edited by SIMON ROTTENBERG. American Enterprise Institute for Public Policy Research, 1150 Seventeenth St., N. W., Washington DC 20036. 1978. 293 pp. 15 × 23 cm. Price \$5.75.

*Polymeric Drugs.* Edited by L. GUY DONARUMA and OTTO VOGL. Academic, 111 Fifth Ave., New York, NY 10003. 1978. 397 pp. 15 × 23 cm. Price \$19.50.

*Mycotoxic Fungi, Mycotoxins, and Mycotoxicoses. An Encyclopedic Handbook, Vol. 2.* Edited by THOMAS D. WYLLIE and LAWRENCE G. MOREHOUSE. Dekker, 270 Madison Ave., New York, NY 10016. 1978. 570 pp. 17 × 26 cm. Price \$75.00.

*Actualités Pharmacologiques.* Edited by RENE HAZARD. Masson, 120 Boulevard Saint-Germain, 75280 Paris Cedex 06, France. 1978. 222 pp. 16 × 24 cm. Price 180 Fr.

*The Biochemical Basis of Neuropharmacology, 3rd Ed.* By JACK R. COOPER, FLOYD E. BLOOM, and ROBERT H. ROTH. Oxford University Press, 200 Madison Ave., New York, NY 10016. 1978. 327 pp. 13 × 21 cm. Price \$6.95 (paper), \$13.95 (cloth).

*Advances in Chromatography, Vol. 16.* Edited by J. CALVIN GIDDINGS, ELI GRUSHKA, JACK CAZES, and PHYLLIS R. BROWN. Dekker, 270 Madison Ave., New York, NY 10016. 1978. 290 pp. 14 × 23 cm. Price \$28.75.

*Further Perspectives in Organic Chemistry. Ciba Foundation Symposium 53 (new series).* Elsevier North-Holland, 52 Vanderbilt Ave., New York, NY 10017. 1978. 212 pp. 16 × 24 cm.

*Gaddum's Pharmacology. 8th Ed.* By A. S. V. BURGESS and J. F. MITCHELL. Oxford University Press, 200 Madison Ave., New York, NY 10016. 1978. 269 pp. 15 × 24 cm. Price \$11.95.

*Ophthalmica. Band II. Pharmazeutische Grundlagen ihrer Zubereitung.* By R. DOLDER and F. S. SKINNER. Wissenschaftliche Verlagsgesellschaft mbH 40, 7000 Stuttgart 1, Germany. 1978. 638 pp. 14 × 21 cm. Price \$94.00.

*Effectors of Thermogenesis. Proceedings of a Symposium Held at Geneva (Switzerland) 14-16 July 1977.* Edited by G. GIRARDIER and J. SEYDOUX. Birkhauser Verlag, P. O. Box 34, CH-4010 Basel, Switzerland. 1978. 345 pp. 17 × 24 cm. Price Sfr. 68.