

forms, scale-up effects, and in-process controls. The importance of the guidelines for good manufacturing practices as elaborated by the World Health Organization is reviewed in sections dealing with documentation, hygienic requirements, and clean room technology.

The subject matter covered by the text is of such great international interest to pharmaceutical scientists that at least a thousand articles or chapters in books appear annually. Therefore, it is of interest to check the bibliography of over 700 references used by the authors in the preparation of the text. Although the proportion does vary somewhat from chapter to chapter, the overall percentage cited from Swiss or German publications is about 60% of the total. This exceedingly high level may reflect the reading habits of the authors or their language preferences or limitations rather than the true proportion of scientific and technological activity taking place throughout the world.

The emphasis in this German-language book lies squarely in the domain of industrial pharmacy, and it can be highly recommended to pharmaceutical scientists active in the research, development, production, and control departments of the pharmaceutical industry; to teachers of pharmaceuticals and pharmaceutical process technology and their graduate students in the universities; and to scientific members of regulatory agencies who wish to gain a valuable perspective of the complex nature of modern drug development and production.

The publisher deserves commendation for the high technical quality of the book itself. Format, typography, figures, and tables are numerous, clear, well-placed, and pertinent to the text. Perhaps that plus inflation explains the price of the book.

¹"Galenisches Praktikum," K. Münzel, J. Büchi, and O.-E. Schultz, Eds., Wissenschaftliche Verlagsgesellschaft MBH, Stuttgart, West Germany, 1959.

²"The Theory and Practice of Industrial Pharmacy," L. Lachman, H. A. Lieberman, and J. L. Kanig, Eds., Lea & Febiger, Philadelphia, Pa., 1970.

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Diuretic Agents (ACS Symposium Series 83). Edited by EDWARD J. CRAGOE, Jr. American Chemical Society, Washington, D.C. 1978. IX + 238 pages. 15 × 23 cm. Price \$21.50.

This book evolved primarily from an American Chemical Society Symposium on Diuretic Agents in 1977. However, as stated in the preface, since the symposium was brief and a more complete picture of research in this field was desired, four papers were added to the original seven.

The opening chapter (McGigg and Wong) contains an up-to-date review of the role of prostaglandins in renal function. It is followed by a chapter on the structure-activity relationships of the highly potent, high-ceiling aminobenzoic acid diuretics (Tvaerose, Nielsen, and Feit). The third chapter (Lang *et al.*) is on pharmacological effects of tizolemid (HOE 740) as an example of a novel class of sulfonamide compounds.

The fourth chapter (Werner *et al.*) reviews the structure-activity relationships of sulfonamide diuretics. The next two chapters (Bessin *et al.* and Maass *et al.*) are on pharmacology and structure-activity relationships of the newer diuretic uricosuric agent, tienilic acid (Ticrynafen). The seventh chapter (Smith *et al.*) is on 2-aminomethylphenols, a new class of saluretic agent characterized by the experimental compound MK-447. The following chapter (Horstmann *et al.*) reviews a new class of longer acting high-ceiling diuretics (1-alkyl-2-pyrazolin-5-ones) characterized by muzolimine.

The ninth chapter (Boschman *et al.*) is a discussion of pharmacology and structural requirements of the quincarbates, a unique class of tricyclic

diuretics. The following chapter (Saltzinger *et al.*) discusses the novel diuretic etozolin, which has mild choleric properties. The last chapter (Woltersdorf *et al.*) discusses evolution of some (aryloxy)-acetic acid diuretics after more than a decade of research.

While this book is the result of the 1977 symposium, all chapters are dated as being received in August 1978 and many contain 1977 and a few 1978 references. Therefore, this book is a complete and current review of structure-activity relationships and pharmacology of various classes of diuretic agents. This book includes discussions on experimental agents undergoing testing for possible therapeutic use and would be useful for anyone seeking current information about the newer diuretic agents.

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NOTICES

Methods of Protein Separation. Vol. 2. Edited by NICHOLAS CATSIMPOOLAS. Plenum, 227 W. 17th St., New York, NY 10011, 1978. 326 pp. 15 × 23 cm. Price \$35.00.

Neurotransmitter Systems and their Clinical Disorders. Edited by N. J. LEGG. Academic, 111 Fifth Ave., New York, NY 10003. 1978. 240 pp. 15 × 23 cm.

New Trends and Developments in Vaccines. Edited by A. VOLLER and H. FRIEDMAN. University Park Press, Chamber of Commerce Building, Baltimore, MD 21202. 1978. 323 pp. 15 × 23 cm. Price \$29.50.

Pharmacy Technicians' Manual. 2nd Ed. Edited by JANE M. DURGIN, ZACHARY I. HANAN, and CHARLES O. WARD. C. V. Mosby St. Louis, Mo. 1978. 287 pp. 15 × 23 cm. Price \$13.95

Psychopharmacology of Affective Disorders. A British Association for Psychopharmacology Monograph. Edited by E. S. PAYKEL and A. COPPEN. Oxford University Press, 200 Madison Ave., New York, NY 10016. 1979. 261 pp. 16 × 24 cm. Price \$25.00.

Quality Control of Drugs. Certification Scheme on the Quality of Pharmaceuticals Products Moving in International Commerce. Reprint of the WHO Chronicle, Vol. 31, No. 12. World Health Organization, Geneva, Switzerland. 1977.

Research Design in Clinical Psychology and Psychiatry. 2nd Ed. Revised and enlarged by J. B. CHASSAN. Wiley, One Wiley Drive, Somerset, NJ 08873. 1979. 492 pp. 13 × 21 cm. Price \$18.50.

Self-Administration of Abused Substances: Methods for Study. NIDA Research Monograph 20. By NORMAN A. KRASNEGOR. National Institute on Drug Abuse, Division of Research, 5600 Fishers Lane, Rockville, MD 20857. 1978. 246 pp. 15 × 23 cm.

Taxis and Behavior. Elementary Sensory Systems in Biology. Receptors and Recognition. Series B, Vol. 5. Edited by G. L. HAZELBAUER. Wiley, 605 Third Ave., New York, NY 10016, 1978. 341 pp. 15 × 23 cm. Price \$45.00.

Topics in Antibiotic Chemistry. Vol. 2. Antibiotics from Marine Organisms, Oligosaccharides, Anthracyclines and their Biological Receptors. By P. G. SAMMES. Wiley, One Wiley Drive, Somerset, NJ 08873. 1979. 283 pp. 15 × 23 cm.

Webster's Medical Office Handbook. By ANNE H. SOUKHANOV and JOHN RHODES HAVERTY. G. & C. Merriam Co., 47 Federal St., Springfield, MA 01101. 1979. 596 pp. 17 × 25 cm. Price \$10.95.