

Book Reviews

PERFUMERY & FLAVORING SYNTHETICS by Paul Z. Bedoukian. Second Revised Edition, Elsevier Publishing Co., New York, N. Y. 10017. 1967. 395 pages, indexed. Price \$23.

The original edition is now about 16 years old. Organic chemicals have increased their inroad on the aromatics used in flavoring and perfumery products at so rapid a pace that today the study of these arts requires a broad knowledge of the new synthetics being made available, almost on a daily basis.

As an example, it was only recently that the musk fragrance came from either natural musk, to a certain extent ambrette seed and angelica, the macrocyclics and the nitro compounds. Today the polycyclics (tetralins, indans, isochromans and steroids as shown by Bedoukian) seem to show possibilities far beyond expectations. Indeed still more recent is the discovery that tricyclic cyclohexanone is both woody and musk-like in odor. And so it goes.

Bedoukian, who has authored an annual review of the subject for the *American Perfumer*, brings the earlier volume up-to-date. His references are as recent as 1966.

Following the format of the earlier work, the present edition gives the history of the principal perfumery synthetics, their chemistry, properties, methods of manufacture and uses which are quite often supplemented by a phrase such as "at present, the steroid musks are of academic interest only."

Massive surgery and rewriting of the original text removed excessive, unnecessary or duplicated material found in other books. This was supplanted by new data. The size was kept within reasonable limits to hold the price down.

As man's ability to separate natural products gets more refined, it is only a question of time before the organic chemist supplies "synthetic essential oils" equal or superior to the natural product. This book is background material in the study of this tremendous progress. But if you are looking for formulations, this is not your book.

Those working in the fields of perfumery and flavoring sciences along with a host of others such as cosmetic chemists will find this a valuable book for both reading and reference.—M. G. DENAVARRE—Beauty Counselors, Inc.

OILS, DETERGENTS AND MAINTENANCE SPECIALTIES, VOLUME II—FORMULARY. Benjamin Levitt. Chemical Publishing Company, Inc., New York. 1967. 259 pages. \$13.75.

This book is a collection of formulations covering a wide variety of household and maintenance specialties. The emphasis of this book is on the composition of various aerosols, cleansers for household and industry use, bactericides, floor care items, pesticides, etc. Needless to say, a collection of formulations, generally supplied by raw material manufacturers, would be of interest only to the neophyte in any given product development area. The cosmetic chemist will find little of use in this particular volume, although it covers some personal products.

A review of a book of this type is almost impossible without actually preparing some of these formulations and ascertaining their merits. As is common in volumes of this type, use of some of the raw materials included may be attended by considerable hazard to the consumer. For example, no comment is made concerning photosensitization by bithionol, although the author fortunately includes a comment about similar sensitization by tetrachlorsalicylanilide. This formulary includes a variety of topical preparations, all of which are readily available in suppliers' promotional literature or in recognized compendia such as the *U. S. Pharmacopeia*.

Despite its limited scientific merit, laymen and some professionals will undoubtedly find something of prac-

tical interest in this volume. However, this reviewer could not recommend addition of this book to the personal library of practicing cosmetic chemists.—M. M. RIEGER, Warner-Lambert Pharmaceutical Company.

LIPID CHROMATOGRAPHIC ANALYSIS, edited by G. V. Marinetti. Marcel Dekker, Inc., New York. 1967. 537 pages. Price \$23.50.

This is the first of two volumes aimed at bringing together all of the important modern methods for separation and clinical analysis of complex lipids. It is aimed at those actively engaged in research and is authored by experts who pioneered in developing the techniques.

The first four chapters are devoted to the polar lipids (phosphatides and glycolipids). The next three chapters are concerned with the neutral glycerides. One chapter is devoted to alkoxy lipids and the remaining six chapters are concerned with the analysis of component parts of complex lipid structures.

In this very rapidly advancing field a book such as this is most welcome, especially in view of the fact that literature references quoted are very much up to date. In addition to general information concerning the principles involved in the various separation procedures, practical information is given on specific techniques and precautions and pitfalls are pointed out. This book should prove very useful to those engaged in lipid research.—PAUL FINKELSTEIN, Gillette Research Institute.