Dyes and Pigments **19** (1992) 157–159

Book Reviews

Colorants and Auxiliaries: Organic Chemistry and Application Properties. Edited by John Shore, Published by the Society of Dyers and Colourists, Bradford, UK, 1990. Vol. 1 *Colorants*, pp. (xi) + 372, price: £26. ISBN 0 901956 51 1. Vol. 2 *Auxiliaries*, pp. (xi) + 228, price: £18. ISBN 0 901956 52X. Price for the two-volume set: £40.

These two volumes have been designed as reference texts for students preparing for the associate examinations of the Society of Dyers and Colourists. They have particular relevance to examination papers pertaining to organic chemistry and to the application of dyes and pigments, and of the auxiliaries used with them, in the coloration process of textile materials.

Volume 1 (Colorants), contains chapters on the historical development and classification of colorants (John Shore), organic and inorganic pigments, and solvent dyes (David Patterson), dye structure on application properties (John Shore), the chemistry of azo colorants (C. Vivian Stead), the chemistry and properties of metal-complex dyes (Francis Jones), the chemistry of anthraquinonoid, polycyclic and miscellaneous colorants (Geoffrey Hallas), and the chemistry of reactive dyes (C. Vivian Stead).

The second volume (Auxiliaries), contains chapters on functions and properties of dyeing and printing auxiliaries, the chemistry of surfactants, classification of dyeing and printing auxiliaries by function, fluorescent brightening agents (FBAs), auxiliaries associated with main dye classes, and auxiliaries in the coloration of fibre blends, and is a *tour de force* by Terence Baldwinson, who contributed all chapters with the exception of the FBAs (Alec Mercer).

The contents of the volumes exemplify the required scope and standards of the ASDC examination and successfully collate the necessary information into readily accessible and available volumes. They thus provide potential candidates for the examination with little excuse with respect to the facile availability of information for their studies. Dr Shore, as editor, and all contributors are to be congratulated on an excellent presentation. The chapters are clearly presented, with a gratifying and liberal use of tables, schemes and structural formulae, all combining to result in a thoroughly readable and understandable text. To encourage further reading, each chapter is extensively referenced, and commendably up-to-date in these references.

The scope of the volumes does, however, go somewhat further than potential ASDC students. This is a text which all concerned with the chemistry and application of colorants and auxiliaries will find of interest, not only in reviving memories of their own learning periods of yesteryear, but in also providing stimulating thought for the future. And at £40 for two volumes, neither process is very painful!

A. T. Peters

Color Chemistry. By H. Zollinger, VCH, Verlagsgesellschaft/Physik-Verlag, Weinheim, Germany, 1991, price: DM220. ISBN 3 527 28352 8.

It seems but a short time ago that the reviewer was enjoying the excellence of Professor Zollinger's initial volume, and has been constantly referring to it since then (*Dyes and Pigments*, **9** (1988) 83).

Professor Zollinger has now updated his initial text; it must be stressed that this is not a simple update, but a major revision. The revision is, in the main, resultant from the rapid developments in colorant chemistry which have occurred since the first volume, and which are still proceeding. As Professor Zollinger indicates in his introduction, the sections on traditional dyes, except for those on disperse dyes, reactive dyes and carbonyl pigments, have not required significant modification; the three sections referred to do, however, exemplify the current thriving and expanding areas of colorants in traditional applications.

The major extension to the volume is with respect to 'functional dyes'. Readers of the Journal will need no introduction to developments in this area which have occurred over the past few years. Professor Zollinger has incorporated into his revised volume the essentials of these changes.

These developments have resulted in a change, from the first volume, 367 pp. to the revised volume of 496 pp. This new volume should now be

recognised as the current standard text on colorant chemistry, with respect to both traditional and hi-tech applications. Comments on the initial volume pertain equally to the new volume, the style and contents of which reflect the authority of the author, and his dedication and deep insight into colorant chemistry.

This book should be mandatory reading for all concerned with colorant chemistry, and its ramifications in both hi-tech and traditional applications.

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