

loids, Dyes, Pigments. Edited by M. Sainsbury. Elsevier, Amsterdam. 1997. xvi + 509 pp. 15.5 × 23 cm. ISBN-0-444-827587. \$324.25.

This second supplement volume to the second edition of *Rodd's Chemistry of Carbon Compounds* completes the update of five-membered monoheterocyclic compounds, published in a first supplement in 1985, and reviews alkaloids, dyes, and pigments. The original chapter numbering used in the second edition and its first supplement for volume IV, Part B, is maintained in the second supplement. The chemistry of pyrrolidine alkaloids is reviewed in the initial chapter (Chapter 7) by D. J. Robins, who also authored the following chapter on pyrrolizidine alkaloids. Subsequent chapters treating classes of five-membered ring-containing alkaloids include The Indole Alkaloids (by G. W. Gribble), Alkaloids of the Amaryllidaceae Family (by J. R. Lewis), and The Tropane Alkaloids (by G. Fodor). Pyrrole pigments containing the porphyrin nucleus are reviewed in Chapter 12 by K. M. Smith. The next chapter covering azaporphyrins, benzoporphyrins, benzoazaporphyrins, phthalocyanines, and related structures was not supplemented since these subjects were covered in Chapters 12 and 15. The redox chemistry of indigo group of pigments was reviewed in Chapter 14 by the editor, M. Sainsbury, a prominent author of chapters in the first supplement. The chapter on cyanine dyes and related pigments, coauthored by G. Bach and S. Dahne, completes the volume. Each chapter provides a thorough, well-written review with key literature citations provided throughout the text. References to reviews that have appeared since the publication to the first supplement appear in the introduction to each chapter, and an extensive subject index can be found at the back of the volume.

Organic and natural product chemists interested in the structure, properties, and synthesis of alkaloids should find considerable use for this volume. Institutional library acquisition of this, and all other volumes of the series of *Rodd's Chemistry of Carbon Compounds*, is highly recommended.

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**Second Supplements to the Second Edition of
Rodd's Chemistry of Carbon Compounds. Volume**

IV: Heterocyclic Compounds. Part E: Six-Membered Monoheterocyclic Compounds with a Hetero Atom from Groups IV, VI or VII of the Periodic Table. Edited by M. Sainsbury. Elsevier, Amsterdam. 1997. xiv + 692 pp. 15.5 × 23 cm. ISBN-0-444-827536. \$447.75.

This entire volume of *Rodd's Chemistry of Carbon Compounds* has been written by R. Livingstone from the University of Huddersfield in the U.K. It highlights progress in the pyrans and thiapyrans that has occurred since publication of this author's major contribution to the first supplement published in 1990. As in earlier volumes, coverage of selenopyrans, telluropyrans, and six-membered heterocycles containing silicon, germanium, and tin is also updated in this second supplement. The book is dominated by the chapter on pyran and its analogues, which consumes 546 pages. In his introductory paragraph to this chapter, Professor Livingstone notes that interest in pyrans, coumarins, chromans, and related compounds has largely shifted away from them as natural products to the synthesis of derivatives having potential utility as pharmaceuticals, herbicides, fungicides, or insecticides. The concluding chapter is largely devoted to advances in the chemistry of thiapyrans and their benzo analogues. Short sections on selenopyrans, telluropyrans, silabenzene, and six-membered germanium and tin heterocycles complete the chapter. A comprehensive subject index can be found at the end of the volume. Each chapter details available chemistry for the specific class of heterocycle and provides guidance to original literature sources. The continuity between this second supplement, the first supplement, and the second edition is particularly outstanding in this volume.

This supplement, along with the complete series of *Rodd's Chemistry of Carbon Compounds*, is recommended for institutional library acquisition; it provides an excellent collected source of information for broad areas of organic chemistry.

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