

## Book Reviews \*

**Gardner's Chemical Synonyms and Trade Names. 11th Edition.** Edited by G. W. A. Milne (Ashgate Publishing). Ashgate Publishing Co.: Brookfield, VT. 1999. xvi + 1424 pp. \$295.00. ISBN 0-566-08190-3.

This is a useful reference book that is organized into four different sections: Part I, a dictionary of 35 000 chemical names and synonyms; Part II, a thesaurus of 85 000 chemical and trade names; Part III, indices of Chemical Abstracts Service registry number and EINECS numbers; and Part IV, a directory of chemical manufacturers and suppliers worldwide.

JA995786J

10.1021/ja995786j

**Theilheimer's Synthetic Methods of Organic Chemistry. Volume 55.** Edited by Alan F. Finch (Cambridge). Karger: Basel, Switzerland. 1999. xxiv + 304 pp. \$430.50. ISBN 3-8055-6889-4.

This book contains abstracts of new synthetic methods in organic chemistry and supplementary data mainly from papers published from March to September 1998, and a listing of reviews in synthetic organic chemistry for the period of September 1998 to February 1999.

JA995785R

10.1021/ja995785r

**Alkaloids: Chemical and Biological Perspectives. Volume 13.** Edited by S. William Pelletier (Institute for Natural Products Research and University of Georgia, Athens). Pergamon: New York. 1999. xviii + 430 pp. \$264.00. ISBN 0-08-043403-7.

This volume offers five reviews of the latest research on alkaloids. The chapter titles and authors are as follows: "Alkaloids from Amphibian Skins", by John W. Daly, H. Martin Garraffo, and Thomas F. Spande; "Naturally Occurring Cyclotryptophans and Cyclotryptamines", by Uffe Anthoni, Carsten Christophersen, and Per Halfdan Nielson; "Recent Research on Pyrrole Alkaloids", by Philip W. LeQuesne, Ying Dong, and Todd A. Blythe; "Recent Developments in the Chemistry of Norditerpenoid and Diterpenoid Alkaloids", by Balawant S. Joshi and S. William Pelletier; and "New Approaches to the Syntheses of Piperidine, Izidine, and Quinazoline Alkaloids by Means of Transition Metal Catalyzed Carbonylations", by Iwao Ojima and Donna M. Iula.

JA995784Z

10.1021/ja995784z

**Pesticide Chemistry and Bioscience: The Food-Environment Challenge.** Edited by Gerald T. Brooks (University of Portsmouth) and Terry R. Roberts (JSC International Ltd). Royal Society of Chemistry: Cambridge, UK. 1999. x + 440 pp. \$100.00. ISBN 0-85404-709-3.

This book features papers derived from the plenary and symposia lectures on the titled topic and presented at the 9th IUPAC-sponsored Congress of Pesticide Chemistry in 1998. It is organized into the following sections: Plenary Lectures, Synthesis and Structure-Activity Relationships, Delivery, Natural Products, Mode of Action and Resistance, Metabolism, Environmental Fate, Residues in Food and the Environment, and Regulation and Risk Assessment.

JA995751J

10.1021/ja995751j

**Structure and Properties of Glassy Polymers. ACS Symposium Series 710.** Edited by Martin R. Tant (Eastman Chemical Co.) and Anita J. Hill (CSIRO). Oxford University Press: New York. 1999. x + 470 pp. \$135.00. ISBN 0-8412-3588-0.

This volume in the ACS Symposium Series contains papers that describe a variety of scientific issues associated with glassy polymers,

including the application of physics and more mechanistic models for interpreting their behavior. An introductory chapter by the editors provides an overview of the book, which is organized into five sections: Physics of Glassy Polymers, Molecular Mobility and Relaxations in the Glassy State, Physical Aging, Mechanical Properties, and Transport Properties.

JA995789W

10.1021/ja995789w

**Electrolytes: Equilibria in Solutions and Phase Equilibria. Calculation of Multicomponent Systems and Experimental Data on the Activities of Water, Vapor Pressures, and Osmotic Coefficients.** By G. G. Aseyev (Khar'kov State Institute of Culture). Translated by Stanislav N. Gorin. Begell House: New York. 1999. vi + 758 pp. \$225.00. ISBN 1-56700-122-X.

This reference book provides extensive tabulations of vapor pressures over solutions, activities of water, and osmotic coefficients over electrolytic solutions.

JA995790V

10.1021/ja995790v

**Polymer Yearbook 16.** Edited by Richard A. Pethrick (University of Strathclyde). Harwood Academic Publishers: Amsterdam. 1999. x + 380 pp. \$250.00. ISBN 90-5702-473-X.

This volume in the annual series continues the practice of previous editions in carrying a number of in-depth review articles and briefer reviews derived from selected conferences on polymers that occurred in 1997.

JA995791N

10.1021/ja995791n

**Progress in Heterocyclic Chemistry. Volume 11.** Edited by G. W. Gribble (Dartmouth College) and T. L. Gilchrist (University of Liverpool). Pergamon: Kidlington, UK. 1999. x + 358 pp. \$150.00. ISBN 0-08-043407-X.

This volume of the series covers the most significant work reported in heterocyclic chemistry in 1998, with inclusions of earlier work as appropriate. It also contains the following three specialized reviews: *Recent Developments in Tröger's Base Chemistry*, by Martine Demeunynck and Amaud Tatibouet; *Recent Advances in the Reaction of Metalated Aromatic Heterocycles with Carbonyl Compounds and their Imino Derivatives*, by Pedro Merino; and *Nucleophilic Substitution of C-Hydrogen on the Five-Membered Ring of Indoles*, by John A. Joule.

JA995792F

10.1021/ja995792f

**Photochemistry of Planetary Atmospheres.** By Yuk L. Yung (Academica Sinica) and William B. DeMore. Oxford University Press: New York. 1999. xiv + 456 pp. \$70.00. ISBN 0-19-510501-X.

This book provides an introduction to the atmospheric photochemical processes of the planets. Understanding its contents does not require an extensive background in physics, mathematics, or chemistry, although its possible use as a textbook is probably limited to upper-division and graduate courses. An interesting feature is the inclusion of "Unsolved Problems" related to planetary atmospheres.

JA9957938

10.1021/ja9957938

\*Unsigned book reviews are by the Book Review Editor.