

Concepts in Electron Correlation. Edited by Alex C. Hewson (Imperial College, London) and Veljko Zlatic (Institute of Physics, Zagreb). Kluwer Academic Publishers: Dordrecht. 2003. iv + 386 pp. \$164.00. ISBN 1-4020-1418-X.

This book is based on the presentations given at the NATO Advanced Research Workshop on "Concepts in Electron Correlation" held in Hvar, Croatia in September, 2002. The aim of the workshop was to bring together both theoreticians and experimentalists to review the current state of affairs in the area and assess future developments. A sampling of the chapters includes "Spectral functions and pseudogap in a model of strongly correlated electrons"; "Nonequilibrium electron transport through nanostructures: correlation effects"; and "From CeIn₃ to PuCoGa₅: Trends in heavy fermion superconductivity". The book contains 37 chapters, a list of contributors, and a subject index.

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Analyses of Hazardous Substances in Air, Volume 8. Edited by Antonius Kettrup (Institut für Ökologische Chemie, Neuherberg, Germany). Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim. 2003. xii + 252 pp. \$165.00. ISBN 3-527-27793-5.

This new volume features 16 tested analytical methods for determining hazardous substances in the air in the workplace. These include methods for determining the following: acetamide, alkali metal hydroxides and alkaline earth hydroxides, alkanolamines, atrazin, benzotriazoles, chlorinated biphenyls, furfuryl alcohol, gelatinous explosives, hydrogen peroxide, lacquer aerosols (three methods), pentachlorophenol and lindane,

PAHs (two methods), and sulfur dioxide. Each chapter gives a summary of the method used, a listing of the reliability criteria and general information about the compound under investigation, detailed preparatory and analytical steps, a discussion of the reliability of the method, and a list of references. A listing of the members and guests of the working subgroup who collected these data and a list of the contents of Volumes 1–8 complete the book.

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Industrial Organic Chemistry: Fourth, Completely Revised Edition. By Klaus Weissermel (deceased) and Hans-Jürgen Arpe (Feilbingert, Germany). Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim. 2003. xx + 492 pp. \$165.00. ISBN 3-527-3578-5.

This new edition, which remains faithful to the basic concept of the earlier editions, that is, to describe concisely "the most important precursors and intermediates of industrial organic chemistry", contains updated information, statistics, and new IUPAC guidelines for nomenclature. The titles of the 14 chapters are as follows: (1) Various Aspects of the Energy and Raw Material Supply; (2) Basic Products of Industrial Syntheses; (3) Olefins; (4) Acetylene; (5) 1,3-Diolefins; (6) Syntheses Involving Carbon Monoxide; (7) Oxidation Products of Ethylene; (8) Alcohols; (9) Vinyl-Halogen and Vinyl-Oxygen Compounds; (10) Components for Polyamides; (11) Propene Conversion Products; (12) Aromatics – Production and Conversion; (13) Benzene Derivatives; (14) Oxidation Products of Xylene and Naphthalene; and (15) Appendix. A subject index completes the book.

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