

Springer Handbook of Enzymes, Supplement, Volume S4: Class 2 Transferases, EC 2.7.11.17–2.8, 2nd ed. Edited by Dietmar Schomburg and Ida Schomburg (Technical University Braunschweig, Germany). Co-edited by Antje Chang (Technical University Braunschweig). Springer-Verlag: Berlin, Heidelberg: 2009. xx + 502 pp. \$379. ISBN 978-3-540-85700-6.

This book represents the printed version of the enzyme data information system BRENDA—now a “full metabolic database”—which was created in 1987 in Braunschweig, Germany. There are ~5000 enzymes listed, which are arranged according to the Enzyme Commission list of enzymes. Where appropriate, each entry provides information under the following categories: Nomenclature; Source Organism; Reaction and Specificity; Enzyme Structure; Isolation/Preparation/Mutation/Application; Stability; and Reference. A short list of abbreviations and an index of recommended enzyme names open the book.

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Polymer Data Handbook, 2nd ed. Edited by James E. Mark (University of Cincinnati, OH). Oxford University Press: New York. 2009. xii + 1250 pp. \$195.00. ISBN 978-0-19-518101-2.

This handbook presents information on the syntheses, structures, properties, and applications of more than 200 polymers or polymeric materials. Polymers were selected based on one or more of the following criteria: commercial importance, novel applications, and/or because they were “unusually interesting”. The second edition has been expanded to include new information on previously reported polymers as well as information about polymers that became important or interesting since the

publication of the first edition in 1999. Polymers are arranged in alphabetical order, and information about them is presented in a tabular format. References are given for each entry. A list of contributors and polymers as well as a subject index completes the book.

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Self-Organization of Molecular Systems: From Molecules and Clusters to Nanotubes and Proteins. Edited by Nino Russo (University of Calabria, Arcavacata di Rende, Italy), Victor Ya. Antochenko, and Eugene S. Kryachko (both at National Academy of Sciences of Ukraine, Kiev). Springer (in cooperation with NATO Public Diplomacy Division): Dordrecht. 2009. xiv + 400 pp. \$229. ISBN 978-90-481-2482-4.

This book was developed from the proceedings of the NATO Advanced Research Workshop entitled “Molecular Self-Organization in Micro-, Nano-, and Macro-dimensions: From Molecules to Water, to Nanoparticles, DNA and Proteins” held in Kiev, Ukraine in June 2008 to commemorate the scientific contributions of Alexander S. Davydov. There are 18 chapters covering a range of topics in the area of molecular self-organization. A sampling of them includes “Recent Progress on Small Hydrogen Molecular Ions” by Alijah; “Complex Symmetry, Jordan Blocks and Microscopic Self-organization” by Brändas; and “Cluster Quantum Chemical Study of the Grignard Reagent Formation” by Tulub and Porsev. A brief subject index completes the book.

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