

Book Review

Book Review of Science and Technology of Polymer Nanofibers

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Science and Technology of Polymer Nanofibers. By Anthony L. Andradý (Research Triangle Institute). John Wiley & Sons, Inc.: Hoboken, NJ. 2008. xx + 404 pp. \$100. ISBN 978-0-471-79059-4.

Described as a “how-to reference” on the back cover, this book covers the science, technology, and practical applications of polymer nanofibers as “filters, fabrics, sensors, catalysts, scaffolding, drug delivery, and wound dressings.” Electrospinning is discussed in detail, along with such other topics as nanofiber quality, composite nanofibers, the physical and the biomedical applications of nanofibers, and the characterization of nanofibers and mats. There are two appendices: (1) Electrospun Polymers Used in Tissue Engineering and Biomedical Applications and (2) Summary Table of Electrospun Polymer Nanofibers. A subject index completes the book.

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Chemical Glycobiology. ACS Symposium Series 990. Edited by Xi Chen (University of California, Davis, CA), Randall Halcomb (Gilead Sciences, Foster City, CA), and Peng G. Wang (The Ohio State University, Columbus, OH). American Chemical Society: Washington, DC (distributed by Oxford University Press). 2008. xiv + 326 pp. \$175. ISBN 978-0-8412-7440-2.

The book was developed from the symposium “Chemical Glycobiology” held during the 232nd American Chemical Society National Meeting in San Francisco, CA in September 2006. There are 14 chapters, which are organized under the

following subheadings: Chemical Synthetic Methods for Chemical Glycobiology; Chemoenzymatic Methods for Chemical Glycobiology; Glycolipids; Glycovaccines; and Tools for Chemical Glycobiology. An author index and a subject index complete the book.

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What is What in the Nanoworld: A Handbook on Nanoscience and Nanotechnology, Completely Revised and Enlarged 2nd ed. By Victor E. Borisenko (University of Informatics and Radioelectronics, Minsk, Belarus) and Stefano Ossicini (University of Modena and Reggio Emilia, Reggio Emilia, Italy). Wiley-VCH GmbH & Co. KGaA: Weinheim. 2008. xvi + 522 pp. \$215. ISBN 978-3-527-40783-5.

The second edition of this book continues to summarize “the terms and definitions, most important phenomena, and regulations occurring in the physics, chemistry, technology, and application of nanostructures”, to quote from the back cover. It also includes close to 2000 entries arranged in alphabetical order, revised and expanded definitions, as well as new tables and figures. Many of the expanded definitions now include historical information, such as where or from whom the term originated, as well as references to further sources of information. The book concludes with a list of scientific journals with the stem “nano” in their title; a list of abbreviations for the scientific journals referenced in the text; and an appendix on the “main properties of intrinsic (or lightly doped) semiconductors”.

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