

**Advances in Chemical Physics. Volume 122.** Edited by Ioannis Antoniou (International Solvay Institutes for Physics and Chemistry, Brussels). J. Wiley & Sons: New York. xxii + 356 pp. \$175.00. ISBN: 0-471-22291-7.

This book contains the proceedings of the XXI Solvay Conference on Physics held in Kansai Science City, Japan, in November 1998. The topic of this symposium and the book is dynamical systems and irreversibility. Its 18 chapters are organized into the following four sections: Discrete Maps; Transport and Diffusion; Quantum Theory, Measurement, and Decoherence; and Extension of Quantum Theory and Field Theory. Author and subject indexes complete the book, and references are current through 2001.

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**Microfabricated Sensors: Application of Optical Technology for DNA Analysis.** Edited by Richard Kordal (University of Cincinnati), Arthur Usmani (Altec USA), and Wai Tak Law (PortaScience Inc.). American Chemical Society: Washington, DC (Distributed by Oxford University Press). 2002. x + 158 pp. \$100.00. ISBN: 0-8412-3763-8.

This book, which was developed from a symposium on microfabricated sensors held during the 219th ACS National Meeting in San Francisco in March 2000, covers the latest research in DNA-chip technology. Its eight chapters are organized into three sections: DNA Chips, Detection Technologies, and Optical Sensing and Processing. References are current through 2001. Author and subject indexes complete the book.

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**Name Reactions: A Collection of Detailed Reaction Mechanisms.** By Jie Jack Li (Pfizer Global Research and Development, Ann Arbor, MI). Springer-Verlag: Berlin, Heidelberg, New York. 2002. xviii + 416 pp. \$79.95. ISBN: 3-540-43024-5.

This book covers the mechanisms of over 300 classical and contemporary name reactions. For each reaction, the step-by-step mechanism is provided, and brief descriptions are provided for some reactions to help the reader to grasp their application. Up-to-date references are provided for each reaction, with the first one referring to the original article and the rest covering more recent articles and review articles. A subject index is included.

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**Glossary of Biotechnology Terms. Third Edition.** By Kimball Nill (American Soybean Association, St. Louis, MO). CRC Press LLC: Boca Raton. 2002. viii + 296 pp. \$69.95. ISBN:1-58716-122-2.

This reference book provides up-to-date, concise definitions of terms, written in nontechnical language, that are used in the field of biotechnology. The goal of the author was to employ "words that would enable the reader to conceptualize the idea embodied in the term, without the necessity of holding advanced degrees in biochemistry or molecular biology". To achieve this end, the author has defined terms through the use of analogies whenever possible. Thus, the book should be of use to a wide range of professionals, from nontechnical specialists such as marketers or lobbyists to molecular biologists and geneticists. The third edition contains 30% more terms than the previous version and offers related terms for each entry.

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