

Additions and Corrections

Coenzyme B₁₂ Is Coordinated by Histidine and Not Dimethylbenzimidazole on Methylmalonyl-CoA Mutase [*J. Am. Chem. Soc.* **1995**, *117*, 7033–7034]. RUGMINI PADMAKUMAR, SHINICHI TAOKA, RAGHAVAKIMAL PADMAKUMAR, AND RUMA BANERJEE*

Page 7034: The following should appear in the Acknowledgements. We would like to thank Dr. Ian Scott (Texas A&M) for the gift of the pMEX2/pGP1-2 strain that was constructed in the laboratory of Dr. Peter Leadley²³ (Cambridge University).

(1) McKie, N.; Keep, N. H.; Patchett, M. L.; Leadley, P. F. *Biochem. J.* **1990**, *269*, 293–298.

JA955026I

Book Reviews *

Two-Dimensional NMR Spectroscopy. Applications for Chemists and Biochemists. By William R. Croasmun (Kraft General Foods Technology Center) and Robert M. K. Carlson (Chevron Petroleum Technology Company). VCH Publishers: New York. 1994. xix + 958 pp. \$125.00. ISBN 1-56081-664-3.

This imposing book attempts to provide an introduction to the explosion of improved NMR techniques, with each expert contributor providing a separate chapter reviewing developments in a particular area, for example, peptides, proton-detected heteronuclear experiments, and experimental aspects of two-dimensional NMR. Although the "two-dimensional" remains in the title from the first edition, multi-dimensional experiments are also treated. While the target audience for the book is supposedly practicing chemists and biochemists, there is something for everyone from the beginner to NMR expert in the text.

By compiling a number of separate contributions from different authors, both the depth and style fluctuate considerably. Repetition is also a problem: popular experiments like ROESY and HMQC are mentioned half a dozen times. Finally, in the interests of completeness, too much material has been included, often uncritically. Cataloging over 50 different water suppression techniques without really making a selection of the *best technique* in each category does nothing to help a scientist wishing to use the water suppression technique and get on with the work at hand. With so many different options available, many of which are out of date or have well-known drawbacks, it is essential to narrow the field of pulse sequences in the interest of clarity and brevity.

For the NMR literate, the excellent Chapter 3 on modern proton-detected heteronuclear experiments provides a comprehensive guide to the most useful experiments, with enough mathematics to make the results understandable. It would be good required reading for a graduate student who has some knowledge of NMR but is unfamiliar with the latest wrinkles. Likewise, the chapters dealing with specific assignment problems in peptides, oligosaccharides, and nucleic acids will be extremely useful to researchers interested in these areas. It is surprising, given the undeniable importance of the field, that a section devoted solely to the NMR spectroscopy of larger proteins is conspicuously absent.

In summary, this book certainly contains a lot of useful information. It would be much better, however, if it were about half as long.

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JA945054L

Correlations, Transformations, and Interactions in Organic Crystal Chemistry. Edited by Derry W. Jones (University of Bradford, U.K.), and Andrzej Katrusiak (Adam Mickiewicz University, Poland). Oxford University Press: New York. 1994. xiii + 325 pp. \$75.00. ISBN 0-19-855826-0.

*Unsigned book reviews are by the Book Review Editor.

Proceedings of the Eighth International Symposium on Organic Crystal Chemistry held at Poznan-Rydzyna, Poland, July 26–30, 1992.

JA955284F

Aquatic Chemistry Interfacial and Interspecies Processes. Edited by Chin Pao Huang (University of Delaware), Charles R. O'Melia (The Johns Hopkins University), and James J. Morgan (California Institute of Technology). American Chemical Society: Washington, DC. 1994. xiv + 412 pp. \$124.95. ISBN 0-8412-2921-X.

Advances in Chemistry Series 244. Developed from a symposium sponsored by the Division of Environmental Chemistry, Inc., at the 203rd National Meeting of the American Chemical Society, San Francisco, CA, April 5–10, 1992.

JA955224+

Radiation and Public Perception: Benefits and Risks. Edited by Jack P. Young (Oak Ridge National Labs) and Rosalyn S. Yalow (Veterans Affairs Medical Center). American Chemical Society: Washington, DC. 1994. xiii + 346 pp. \$69.95. ISBN 0-8412-2932-5.

Advances in Chemistry Series 243. Developed from a symposium sponsored by the Division of Nuclear Chemistry and Technology, Chemical Health and Safety, and Environmental Chemistry, Inc., at the 203rd National Meeting of the American Chemical Society, San Francisco, CA, April 5–10, 1992.

JA955223H

Materials Chemistry an Emerging Discipline. Edited by Leonard V. Interrante (Rensselaer Polytechnic Institute), Lawrence A. Caspar (University of Wisconsin–Madison), and Arthur B. Ellis (University of Wisconsin–Madison). American Chemical Society: Washington, DC. 1995. xviii + 570 pp. \$79.95. ISBN 0-8412-2809-4.

Advances in Chemistry Series 245. Developed from a symposium sponsored by the Division of Industrial and Engineering Chemistry, Inc., at the 204th National Meeting of the American Chemical Society, Washington, DC, August 23–28, 1992.

JA955283N

Inorganic Synthesis, Nonmolecular Solids, Volume 30. Edited by Donald W. Murphy (AT&T Bell Labs) and Leonard V. Interrante (Rensselaer Polytechnic Institute). Wiley: New York. 1995. xvii + 302 pp. \$60.00. ISBN 0-471-30508-1.

This special topics volume differs from the usual volumes by its focus on synthesis of nonmolecular inorganic solids and in the fact that it includes selected syntheses reprinted from earlier volumes in addition to new contributions. The choice of reprinted syntheses is selective rather than comprehensive. The authors focus on syntheses