

Book Reviews

Spectroscopy. Volume Two. Ultra-violet, Visible, Infrared and Raman Spectroscopy. By S. WALKER, D.Sc. (Lond), M.A., D.Phil. (Oxon), F.R.I.C., Professor of Chemistry, Lakehead University, Ontario, Canada, and H. STRAW, B.Sc., Senior Lecturer at the College of Technology, Leicester. Barnes and Noble, Inc., 105 Fifth Ave., New York, N. Y. 1967. xxvi + 386 pp. 15 X 24.5 cm. \$6.75

The two volumes on "Spectroscopy" by Walker and Straw aim to give in one source a full introductory account of the various branches of spectroscopy. The second volume reviewed here, deals with ultraviolet, visible, infrared, and Raman spectroscopy. The three chapters on Molecular Quantum Numbers, Infra-red and Raman Spectra, and Molecular Electronic Spectra are sufficiently detailed to give research workers approaching the field for the first time a good understanding of the working principles involved. The chapters on Instrumentation, Fluorescence and Phosphorescence, Dissociation Energies, Force Constants, and Thermodynamic Functions are adequate to provide one with a detailed view of the field of molecular spectroscopy. Some topics like group theory and symmetry considerations and spectra of molecules in crystals and solids seem to have not been included, presumably because of space limitations.

The authors have taken good care to include numerous examples from the literature, worked out completely. The application of spectroscopic methods and the interpretation of results of spectral studies with reference to structural, analytical, and chemical problems are discussed in detail in all the chapters. A list of the various symbols used in atomic and molecular spectra is also given, and this will considerably help the beginner to avoid confusion. The authors have succeeded very well in their endeavor to fill the gap between introductory courses and advanced work on the subject.

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BOOKS RECEIVED, September 1968

- F. ALBERT COTTON, Editor. "Progress in Inorganic Chemistry." Volume 9. Interscience Publishers, John Wiley and Sons, Inc., 605 Third Ave., New York, N. Y. 1968. 313 pp. \$12.95.
- N. M. EMANUEL and UY. N. LYASKOVSKAYA. Translated by K. A. ALLEN. "The Inhibition of Fat Oxidation Processes." Pergamon Press Ltd., Headington Hill Hall, Oxford, England. 1967. 389 pp. \$19.50.
- VIKTOR GUTMANN, Editor. "Halogen Chemistry." Volume 2. Academic Press Inc., Ltd., Berkeley Square House, Berkeley Square, London, England. 1967. 481 pp. \$20.00.
- VIKTOR GUTMANN, Editor. "Halogen Chemistry." Volume 3. Academic Press Inc., Ltd., Berkeley Square House, Berkeley Square, London, England. 1967. 471 pp. \$20.00.
- WILLIAM L. JOLLY, Editor-in-Chief. "Inorganic Syntheses." Volume XI. McGraw-Hill Book Co., Inc., 330 West 42nd St., New York, N. Y. 1968. 231 pp. \$10.50.
- C. K. JØRGENSEN, J. B. NEILANDS, SIR RONALD S. NYGOLM, D. REINEN, and R. J. P. WILLIAMS, Editors. "Structure and Bonding." Volume 4. Springer-Verlag New York Inc., 175 Fifth Ave., New York, N. Y. 1968. 229 pp. \$12.00.
- BILLY M. MCCORMAC, Editor. "Earth's Particles and Fields." Reinhold Publishing Corp., 430 Park Ave., New York, N. Y. 1968. 464 pp. \$27.50.
- T. A. H. PEACOCKE. "Atomic and Nuclear Chemistry." Volume 1. "Atomic Theory and Structure of the Atom." Pergamon Press Ltd., Headington Hill Hall, Oxford, England. 1968. 140 pp. \$4.50.
- BERNARD PULLMAN, Editor. "Molecular Associations in Biology." Academic Press Inc., 111 Fifth Ave., New York, N. Y. 1968. 571 pp. \$24.50.
- MAX E. RAFELSON, JR., and STEPHEN B. BINKLEY. "Basic Biochemistry." Second Edition. The Macmillan Co., 866 Third Ave., New York, N. Y. 1968. 383 pp. \$9.95.
- HERBERT S. RHINESMITH and LUIGI A. CIOFFI. "Macromolecules of Living Systems. Structure and Chemistry." Reinhold Publishing Corp., 430 Park Ave., New York, N. Y. 1968. 164 pp. \$4.75.
- MASSIMO SIMONETTA, Editor. "The Extreme Conditions of Temperature and Pressure in the Chemical Industry." Pergamon Press Ltd., Headington Hill Hall, Oxford, England. 1968. 87 pp. \$6.00.
- HERMAN A. SZYMANSKI and ROBERT E. YELIN. "NMR Band Handbook." Plenum Publishing Corp., 227 West 17th St., New York, N. Y. 1968. 432 pp. \$40.00.
- H. J. V. TYRELL and A. E. BEEZER. "Thermometric Tritrimetry." Barnes and Noble Inc., 105 Fifth Ave., New York, N. Y. 1968. 207 pp. \$7.75.
- F. A. WHITE. "Mass Spectrometry in Science and Technology." John Wiley and Sons, Inc., 605 Third Ave., New York, N. Y. 1968. 352 pp. \$14.95.
- G. H. WILLIAMS, Editor. "Advances in Free-Radical Chemistry." Volume II. Academic Press Inc., 111 Fifth Ave., New York, N. Y. 1967. 274 pp. \$14.00.