

Book reviews

Progress in Vacuum Microbalance Techniques, edited by Th. Gast and E. Robens, Volume 1, Heyden and Son Ltd., London, 1972, £5.50, \$14.50, DM 53.00.

This volume consists of the Proceedings of the Ninth Conference on Vacuum Microbalance Techniques held at the Technical University, Berlin, Germany, 12–13 August 1970. It consists of 31 papers that were presented at the conference which cover the topics of the historic and prehistoric development of the balance to physico-chemical studies involving the vacuum microbalance. Most of the papers, as the title describes, are related to studies in a low pressure environment using an electronic microbalance. The papers are printed in their original typewritten format as is common with many "proceedings" books of this type. The quality of the printing appears to be excellent. This book is an excellent addition to the proceedings issues of the previous vacuum microbalance conferences and is recommended to workers using vacuum microbalance techniques.

W. W. Wendlandt

Thermal Analysis (Proceedings of the Third International Conference on Thermal Analysis), edited by H. G. Wiedemann, Birkhäuser Verlag, Basel-Stuttgart, 1972; Volume 1, 646 pp., DM 67.00; Volume 2, 816 pp., DM 84.00; Volume 3, 726 pp., DM 76.00.

For those of us who attended or participated in the Third ICTA Conference at Davos, Switzerland, the arrival of these three volumes of the proceedings is indeed welcome. Some 360 scientists from 30 countries attended the conference at which 190 lectures were presented as well as five plenary lectures. The three volumes of the proceedings contain almost all of the lectures that were presented, 177 of them.

Volume 1 contains 52 papers on advances in instrumentation and the plenary lecture by W. W. Wendlandt. Also included are papers on thermal analysis standards, nomenclature and literature. Volume 2 contains 66 papers on physical and inorganic chemistry with a plenary lecture by J. Šesták. This volume, which is edited by H. R. Ostwald and E. Dubler, contains the largest number of papers and also pages. The last volume, Volume 3, consists of 37 papers on organic and macromolecular chemistry, 14 papers on ceramics, and 8 papers on earth science. Plenary lectures were given by R. F. Boyer, O. Kubaschewski, and J. Ward Smith. Editors of this volume were H. G. Elias, G. Bayer, and M. Muller-Vonmoos.

The editing and printing work on these volumes are of excellent quality; as with most proceedings publications, the print is that of the original manuscript typescript. This work should be a basic reference source for thermal analysis techniques and applications for many years to come.

W. W. Wendlandt