THERMAL ANALYSIS HIGHLIGHTS 1985

Editors, V. Balek and J. Šesták (Czechoslovakia): Thermochimica Acta, V. 110, 550 p., 1987. This *special issue* volume is available directly from Elsevier Scientific Publishers, Amsterdam, The Netherlands.

The achieved aim of this special volume of 550 pages is to provide a reference book bringing together all aspects included in and arising from the 8th International Conference on Thermal Analysis (ICTA) at Bratislava in 1985. It not only contains the text of plenary and award lectures, results of conference workshops, but also reviews and overviews of currently advancing and topical methods and areas of thermal analysis applications. In particular, then coverage of physical properties, solid state chemistry, materials research, earth sciences, including fuels and kinetics are of marked reference value.

The following plenary lectures and key reviews warrant specific commendation.

Mechanochemistry in inorganic solids (V. V. Boldyrev).

Thermal analysis applied to electronic materials and processes (P. K. Gallagher & H. E. Bair).

Applications of thermal analysis to carbonate mineralogy (S. St. J. Warne).

Quantitative thermoanalytical studies of kinetics and mechanisms of the thermal decomposition of inorganic solids (M. E. Brown).

The methodology of studying reaction kinetics by thermal analysis (J. Kříž & J. Šesták).

The evaluation of kinetic parameters from non-isothermal experiments (T. Kemény).

Thermokinetics by heat-conduction calorimetry (H. Tachoire & V. Torra).

Introduction and critique of non-isothermal kinetics (P. D. Garn).

Information flood: fiction and reality (J. Fiala).

Some macrokinetic structural aspects of heterogeneous thermal dissociation reactions (V. A. Logviněnko).

Thermosonimetry (K. Lønvik).

Thermomagnetometry (S. St. J. Warne & P. K. Gallagher).

Emanation thermal analysis, a status report (V. Balek).

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Significance of structural factors in the thermal dissociation of solids (L. Stoch).

Thermal effects induced by imperfections in powdered solids (J. Morales & J. L. Tirado).

Water-solid interactions in thermal analysis (S. Yariv & S. Shoval).

Microdynamics of solid-state reactions (Z. G. Szabó).

In all some 75 authors contributed to this up to date compilation of a vast range of aspects which contains a gold mine of information for research, industry and teaching.

S. St. J. Warne