
Contents

I Introductory Lectures

MACKENZIE R. C., Aberdeen Geosciences in Thermal Analysis Development	2
--	---

DUBRAWSKI J. V., Newcastle/NSW Differential Scanning Calorimetry and its Applications to Mineralogy and the Geosciences	16
---	----

II Petrography

WARNE S. ST. J., Newcastle/NSW Variable Atmosphere Thermal Analysis - Methods, Gas Atmospheres and Applications to Geoscience Materials	62
---	----

FÖLDVARI M., Budapest Measurement of Different Water Species in Minerals by Means of Thermal Derivatography	84
---	----

AUGUST C., Wrocław The Determination of Hydrated Sulphates in the Weathered Crystalline Rocks by Means of Thermal Analysis	102
--	-----

III Physico-Chemical Mineralogy

STOCH L., Krakow Internal Thermal Reactions of Minerals	118
--	-----

ROUQUEROL J., BORDÈRE S. & ROUQUEROL F., Marseille Kinetical Study of Mineral Reactions by Means of "Controlled transformation Rate Thermal Analysis (CRTA)"	134
---	-----

EYSEL W., Heidelberg	
Thermoanalytical Investigations of Binary Oxide Systems	152
HEIDE K., Jena	
Kinetic Analysis of the Crystallization of Silicate Melts by Means of DSC, DTA and Thermal Optical Methods	172
IV Technical Mineralogy	
ABDEL REHIM A. M., Alexandria	
Application of Thermal Analysis in Mineral Technology . . .	188
SCHOMBURG J., Neubrandenburg	
Thermal Investigations in Technical Mineralogy	224
STARCK S., Eisenberg/Pfalz	
Application of Thermal Methods in Raw Material Control and During the Production Process	234
V Clay Mineralogy and Applied Geology	
STEPKOWSKA E. T., SULEK Z., PEREZ-RODRIGUEZ J. L., MAQUEDA C. & JUSTO A., Gdansk and Sevilla	
A Study of the Thermal Behaviour and Geotechnical Properties of a Marine Clay and Its Composites	246
EARNST C. M., Rome/Georgia	
Thermal Analysis of Selected Illite and Smectite Clay Minerals.	
Part I. Illite Clay Specimens	270
Part II. Smectite Clay Minerals	288

LANGIER-KUZNIAROWA A., Warszawa	
Remarks on the Applicability of Thermal Analysis for the	
Investigations of Clays and Related Materials	314
YARIV S., Jerusalem	
Differential Thermal Analysis (DTA) of Organo-Clay	
Complexes	328
SMYKATZ-KLOSS W., HEIL A., KAEDING L. & ROLLER E.,	
Karlsruhe	
Thermal Analysis in Environmental Studies	352
Subject Index	368