

THERMOANALYTICAL METHODS OF INVESTIGATION

By Paul D. Garn

DEPARTMENT OF CHEMISTRY
THE UNIVERSITY OF AKRON
AKRON, OHIO

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Thermoanalytical Methods Of Investigation

Larry L. Hench, Robert William Gould



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Handbook of Thermal Analysis and Calorimetry Michael E. Brown, Patrick K. Gallagher, 2003-12-08 This is the second volume of a four volume set intended to describe the techniques and applications of thermoanalytical and calorimetric methods The general techniques and methodology are covered extensively in Volume 1 along with the fundamental physicochemical background needed Consequently the subsequent volumes dwell on the applications of these powerful and versatile methods while assuming a familiarity with the techniques Volume 2 covers major areas of inorganic materials and some related general topics e g catalysis geochemistry and the preservation of art The chapters are written by established practitioners in the field with the intent of presenting a sampling of the how thermoanalytical and calorimetric methods have contributed to progress in their respective areas The chapters are not intended as exhaustive reviews of the topics but rather to illustrate to the readers what has been achieved and to encourage them to consider extending these applications further into their domains of interest Provides an appreciation for how thermal methods can be applied to inorganic materials and processes Provides an insight into the versatility of thermal methods Shares the experiences of experts in a variety of different fields A valuable reference source covering a huge area of materials coverage

Thermal Methods in Petroleum Analysis Heinz Kopsch, 2008-07-11 This exceptional book reveals the results of twelve years of extensive thermoanalytical investigations into petroleum and its products with the aid of 236 tables 284 diagrams and 159 references Firstly the methods employed in obtaining thermoanalytic data in particular thermogravimetry differential thermal analysis and differential scanning calorimetry are presented and the underpinning theory described Next the data obtained from model substances i e pure hydrocarbons is displayed it is then explained how multicomponent hydrocarbon systems may be characterized by comparison of their data with this Research into petroleum and its products using these methods is outlined The reactions central to various refinery processes tertiary oil recovery lubricant stability testing and oil shale retorting to name but a few examples are investigated as are relevant pyrolysis and oxidation reactions Finally readers are brought up to date with recent developments in instrumentation are recommended hardware and software and are provided with a list of suppliers Scientists engineers and technicians working on research product characterization process development or quality control in the oil recovery oil refining petrochemical lubricant and asphalt industries will find the advice and information in this book to be of great value

The Analysis of Thermally Stimulated Processes R. Chen, Y. Kirsh, 2013-10-22 Thermally stimulated processes include a number of phenomena either physical or chemical in nature in which a certain property of a substance is measured during controlled heating from a low temperature Workers and graduate students in a wide spectrum of fields require an introduction to methods of extracting information from such measurements This book gives an interdisciplinary approach to various methods which may be applied to analytical chemistry including radiation dosimetry and determination of

archaeological and geological ages In addition recent advances are included such as ionic thermocurrent of general order kinetics polarization thermocurrents and some aspects of the superlinear dependence on the dose of thermoluminescence

Drug-biomembrane interaction studies A. Fortunato,2013-10-31 In DSC the heat flow in and out of a sample and a reference material is measured as a function of temperature as the sample is heated cooled or held isothermally at constant temperature The measurement signal is the energy absorbed or released by the sample in milliwatts DSC can detect endothermic and exothermic effects determine peak areas transition and reaction enthalpies determine temperatures that characterize a peak or other effects and measure specific heat capacity Since the end of the nineteenth century DSC has been improved and optimized With the numerous technological innovations in both hardware and software it can explore new and demanding applications Different measurement principles sensors signal processing accessories and evaluation capabilities make differential scanning calorimetry one of the most common and versatile techniques in material characterization Today DSC benefits from technological solutions used previously for other applications MEMS technology optical devices and parameter estimation methods

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Drug-Biomembrane Interaction Studies Rosario Pignatello,2013-10-31 The design and development of drugs and new pharmaceutical formulations require a full characterization of the chemical and physicochemical events occurring at the level of the single active ingredients or excipients as well as their reciprocal interaction Thermal analysis techniques are among the most widely used methods to achieve this among them the Differential Scanning Calorimetry DSC technique in which the thermotropic behaviour of a single substance or mixtures is analyzed as a function of a controlled temperature program DSC is an accurate and rapid thermo analytical technique widely used by the pharmaceutical industry and in drug research to investigate several physico chemical phenomena such as polymorphism melting and crystallization purity and drug excipient interaction as well as characterizing biomolecules such as genetic material Drug biomembrane interaction studies is written by scientists renowned for their work in the field of DSC

applications to drug development and delivery and especially to drug biomembrane interaction studies The book combines insights from biochemistry and physiology with those from structural biology nanotechnology and biothermodynamics to obtain a complete depiction of cell membranes and their functions Summarizes and updates the recent development in a unique handbook format Consists of a combination of scientific updates within the field Contains chapters written by some of the highest level experts in the field of DSC

Gravimetric Analysis László Erdey,2013-09-03 Analytical Chemistry Volume 7 Gravimetric Analysis Part II describes the experimental procedures for the gravimetric analysis of Groups I to V cations This book is composed of 43 chapters that also present sample preparation separation and precipitation protocols The first six chapters include Group I cations such as silver lead mercury copper bismuth and cadmium followed by chapters on Group II cations including arsenic antimony tin germanium gold platinum selenium and tellurium The subsequent chapters explore the gravimetric determination of Group III cations namely aluminum iron chromium nickel cobalt zinc manganese titanium zirconium hafnium thorium scandium niobium and tantalum molybdenum tungsten vanadium uranium thallium indium gallium and beryllium The remaining chapters are devoted to analysis of various forms of Groups IV and V cations This book will prove useful to analytical and inorganic chemists teachers and students in the allied fields

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Biophysical Methods in Food Research H. W.-S. Chan,1984 Each of the 4 reviews provides an introduction to the techniques involved their theoretical and mathematical bases and specific examples of their most significant applications in food research for characterizing the structural and physical properties of specific food components and their interactive behavior The text is replete with a wide assortment of graphs spectra and mathematical relationships The reviews are organized to serve as an authoritative reference primer for the food researcher

A Handbook of Determinative Methods in Clay Mineralogy Michael Jeffrey Wilson,1987 *Our Energy Future : the Petroleum Society of CIM and AOSTRA 1991 Technical Conference, Banff Springs Hotel, April 21-24, 1991* Alberta Oil Sands Technology and Research Authority,Petroleum Society of CIM,1991

Transactions of the Faraday Society Faraday Society,1967

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