



Thermal Decomposition of Solids and Melts: New Thermochemical Approach to the Mechanism, Kinetics and Methodology (Hot Topics in Thermal Analysis and Calorimetry)

By Boris V. L'vov

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This book covers the results of investigations into the mechanisms and kinetics of thermal decompositions of solid and liquid substances on the basis of thermochemical analyses. The main features of these reactions are explained and many problems and unusual phenomena, which have accumulated in this field are interpreted. New methods of TA measurement and calculation have been developed, which permit the precision and accuracy of determination of kinetic parameters to be increased substantially.

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Editorial Review

Review

Aus den Rezensionen:

"Das Buch ist eine Übersetzung aus dem Russischen mit Zusätzen und Verbesserungen. ... Es beschäftigt sich mit der thermischen Zersetzung von Festkörpern und Schmelzen. ... Ulgol'kov beschreibt die instrumentellen Parameter thermodynamisch und erläutert sie an Beispielen. Das Buch schließt mit einem Index, Massekonstanten und Gasdruckdaten. Das Fachbuch wendet sich an Anwender der Thermischen Analysetechniken. Die thermodynamischen Effekte werden gut beschrieben ..." (Robert Fuchs, in: Mitteilungsblatt der GDCh -Gesellschaft Deutscher Chemiker-, 2008, Issue 4, S. 12)

From the Back Cover

Thermal Decomposition of Solids and Melts describes the results of investigations into the mechanisms and kinetics involved in the thermal decomposition of solid and liquid substances via thermochemical analysis (TA). The main features of these thermal decomposition reactions are explained within and the observed anomalies are interpreted. New methods of TA measurement and calculation have been developed, which permit the precision and accuracy of determination of kinetic parameters to be increased substantially. Reliable kinetic characteristics have been obtained and the decomposition mechanisms for several substances have been interpreted. These include different classes of compounds:

- crystalline hydrates
- oxides
- hydroxides
- nitrides
- azides
- nitrates
- sulfates
- carbonates
- oxalates

This book is intended for advanced undergraduates, researchers, and technologists working in the fields of engineering, metallurgy, chemistry, and material science.

About the Author

Professor and Head of the Analytical Chemistry department at St. Petersburg State University, Russia.

Users Review

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Joel Fallis:

This book untitled Thermal Decomposition of Solids and Melts: New Thermochemical Approach to the Mechanism, Kinetics and Methodology (Hot Topics in Thermal Analysis and Calorimetry) to be one of several books that best seller in this year, that is because when you read this guide you can get a lot of benefit onto it. You will easily to buy this kind of book in the book store or you can order it by using online. The publisher of the book sells the e-book too. It makes you quickly to read this book, since you can read this book in your Smartphone. So there is no reason for your requirements to past this guide from your list.

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