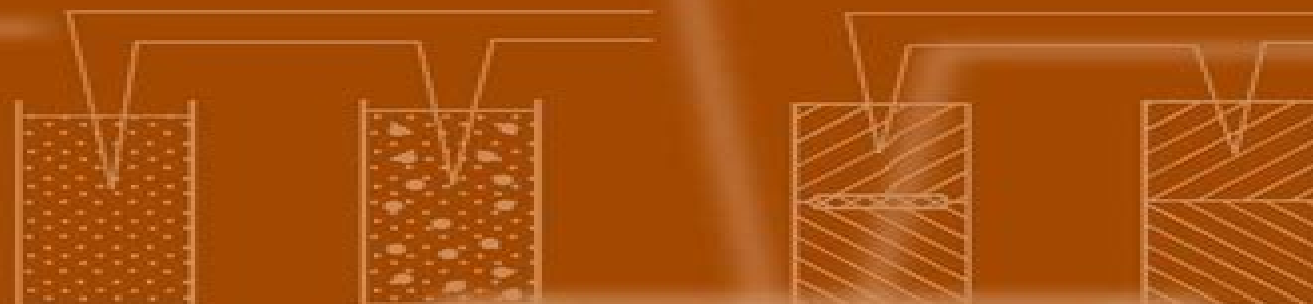


A. S. Shteinberg



Fast Reactions in Energetic Materials

High-temperature Decomposition
of Rocket Propellants and Explosives

Fast Reactions In Energetic Materials High Temperature Decomposition Of Rocket Propellants And Explosives

**Igor E. Uflyand, Gulzhian I.
Dzhardimalieva**



Fast Reactions In Energetic Materials High Temperature Decomposition Of Rocket Propellants And Explosives:

Fast Reactions in Energetic Materials Alexander S. Shteinberg, 2008-09-26 Modern energetic materials include explosives blasting powders pyrotechnic mixtures and rocket propellants 1 2 The study of high temperature decomposition of condensed phases of propellants and their components liquid solid and hybrid is currently of special importance for the development of space system engineering 3 4 To better understand the burning mechanisms stationary nonstationary steady of composite solid propellants and their components information about the macrokinetics of their high temperature decomposition is required 5 To be able to evaluate the ignition parameters and conditions of safe handling of heat affected explosives one needs to know the kinetic constants of their high temperature composition The development of new composite solid propellants characterized by high performance characteristics high burning rates high thermal stability stability to intrachamber perturbations and other aspects is not possible without quantitative data on the high temperature decomposition of composite solid propellants and their components 6 The same reasons have resulted in significant theoretical and practical interest in the high temperature decomposition of components of hybrid propellants It is known that hybrid propellants have not been used very widely due to the low burning pyrolysis rates of the polymer blocks in the combustion chambers of hybrid rocket engines To increase the burning rates it is necessary to obtain information about their relationships to the corresponding kinetic and thermophysical properties of the fuels

Chemistry of Polymeric Metal Chelates Gulzhian I. Dzhardimalieva, Igor E. Uflyand, 2018-02-13 This book deals with the chemistry of polymeric metal chelates The main results and the production and chemical structure of polymers with chelate units as well as the specificity of metal complex binding of different structure are presented here This book also reveals the transformations which components undergo in the course of chelation Special attention is paid not only to synthetic but also to natural including living systems The usage of polymeric metal chelates and their development are examined The related research was performed for chelates with chain structure This book is useful to researchers being active in synthesis and design of macromolecular metal chelates

Chemistry of High-Energy Materials Thomas M. Klapötke, 2015-11-13 Chemistry of High Energy Materials continues in this new and revised 3rd edition to provide fundamental scientific insights into primary and secondary explosives propellants rocket fuel and pyrotechnics The contents of the previous edition were meticulously updated and recent research developments added to this graduate level textbook Applications in military and civil fields are discussed Especially environmental issues caused by lead based primary explosives perchlorates in pyrotechnic formulations and modern signal flare compositions are discussed and current research presented Further additions include the understanding of the mechanism and continuing development of laser ignition methods techniques for the characterization of detonators and their output as well as principles and effects of underwater explosions New in the 3rd Edition Revised and updated content new study problems and questions Extended examination of the application of ionic liquids in the field and hydrodynamics Intended for advanced students in chemistry

materials science and engineering as well as to all those working in defense technology This book makes a nice addition to the shelf of everyone involved with energetic materials As such it is recommended as a very useful reference for both students and experienced readers Ernst Christian Koch on the 2nd Edition in Propellants Explosive Pyrotechnics 16 2011 Upcoming titles by Thomas M Klap tke Energetic Materials Encyclopedia January 2018 Thomas M Klap tke CSci CChem FRSC was from 1995 until 1997 Ramsay Professor of Chemistry at the University of Glasgow in Scotland Since 1997 he has held the Chair of Inorganic Chemistry at LMU Munich Nanomaterials Preparation by Thermolysis of Metal Chelates Igor E. Uflyand, Gulzhian I. Dzhardimalieva, 2018-06-29 The book focuses on the thermal transformations of various types of metal chelates e g low molecular weight and polymeric metal chelates coordination polymers and metal organic frameworks It analyzes the major advances and the problems in the preparation of metal oxide materials mixed oxide nanocomposites carbon materials and polymer derived non oxide nanocomposites by the thermolysis of different metal chelates It also highlights the influence of the spatial and electronic structure of metal chelates on the mechanism and kinetics of their thermal transformations and discusses important issues like conjugate thermolysis and computer modelling of the thermolysis process This book is useful for researchers experienced in thermolysis as well as for young scientists interested in this area of science **Combustion of Energetic Materials** Kenneth K. Kuo, Luigi T. DeLuca, 2002 This edited book contains state of the art information associated with energetic material combustion There are twelve topical areas including Reaction Kinetics of Energetic Materials Solid Liquid and Gel Propellants Recycling of Energetic Materials Combustion Performance of Hybrid and Solid Rocket Motors Ignition and Combustion of Energetic Materials Energetic Material Defects and Rocket Engine Flowfields Metal Combustion Pyrolysis and Combustion Processes of New Ingredients and Applications Theoretical Modeling and Numerical Simulation of Combustion Processes of Energetic Materials Combustion Diagnostic Techniques Propellant and Rocket Motor Stability Commercial Applications of Energetic Materials Airbags Gas Generators etc and Thermal Insulation and Ablation Processes **Nanoenergetic Materials** Djalal Trache, Luigi T. DeLuca, 2021-03-25 This highly informative and carefully presented book discusses the preparation processing characterization and applications of different types of nanoenergetic materials as well as the tailoring of their properties It gives an overview of recent advances of outstanding classes of energetic materials applied in the fields of physics chemistry aerospace defense and materials science among others The content of this book is relevant to researchers in academia and industry professionals working on the development of advanced nanoenergetic materials and their applications **Developments in Combustion Technology** Konstantinos Kyprianidis, Jan Skvaril, 2016-10-05 Over the past few decades exciting developments have taken place in the field of combustion technology The present edited volume intends to cover recent developments and provide a broad perspective of the key challenges that characterize the field The target audience for this book includes engineers involved in combustion system design operational planning and maintenance Manufacturers and combustion technology

researchers will also benefit from the timely and accurate information provided in this work The volume is organized into five main sections comprising 15 chapters overall Coal and Biofuel Combustion Waste Combustion Combustion and Biofuels in Reciprocating Engines Chemical Looping and Catalysis Fundamental and Emerging Topics in Combustion Technology

Technical Abstract Bulletin Defense Documentation Center (U.S.),1963 **Propellants and Explosives** Naminosuke Kubota,2002-03-19 Propellants and explosives and contain considerable chemical energy that can be converted into rapid expansion In contrast to the simple burning of a fuel explosives and propellants are self contained and do not need an external supply of oxygen via air Since their energy content inherently creates the risk of accidental triggering of the explosive reaction the correct synthesis formulation and handling during production and use are of utmost importance for safety necessitating specialist knowledge on energetic materials their characteristics handling and applications **Shock**

Compression of Condensed Matter - 2005 Michael D. Furnish,Mark Elert,Thomas P. Russell,Carter T. White,2006-08-24 This book constitutes the Proceedings of the Conference of the American Physical Society Topical Group on Shock Compression of Condensed Matter Baltimore Maryland USA 2005 The volume embodies the most recent research on shock compression of condensed matter and includes 363 plenary invited and contributed papers all peer reviewed Topics include equations of state phase transitions chemical reactions warm dense matter fracture geophysics and planetary science energetic materials optical studies and more **International Aerospace Abstracts** ,1999 **41st**

AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit 10-13 July 2005, Tucson, Arizona: 05-3750 - 05-3799 ,2005 **Scientific and Technical Aerospace Reports** ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Encyclopedia of Chemical Technology: Explosives and propellants**

to flame retardants for textiles ,1993 **Solid Propellant Chemistry, Combustion, and Motor Interior Ballistics** Vigor Yang,Thomas B. Brill,Wu-Zhen Ren,Paul Zarchan,2000 This volume brings together the world s most highly regarded scientists in the field of solid rocket propulsion Thirty nine papers present in depth coverage on a wide range of topics including advanced materials and nontraditional formulations the chemical aspects of organic and inorganic components in relation to decomposition mechanisms kinetics combustion and modeling safety issues hazards and explosive characteristics and experimental and computational interior ballistics research including chemical information and the physics of the complex flowfield **Kirk-Othmer Encyclopedia of Chemical Technology, Explosives and Propellants to Flame**

Retardants for Textiles Donald Frederick Othmer,Mary Howe-Grant,1991 Contains a library of information for the chemical industry The 4th edition has undergone a complete revision with the inclusion of many new subjects which reflect the growth in chemical technology through the 1990s The book includes expanded coverage of biotechnology and materials science **Journal of Scientific & Industrial Research** ,1989 **Government Reports Announcements & Index** ,1995

Rocket Propellants Francis A. Warren, 1958

AIAA 28th Aerospace Sciences Meeting , 1990

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