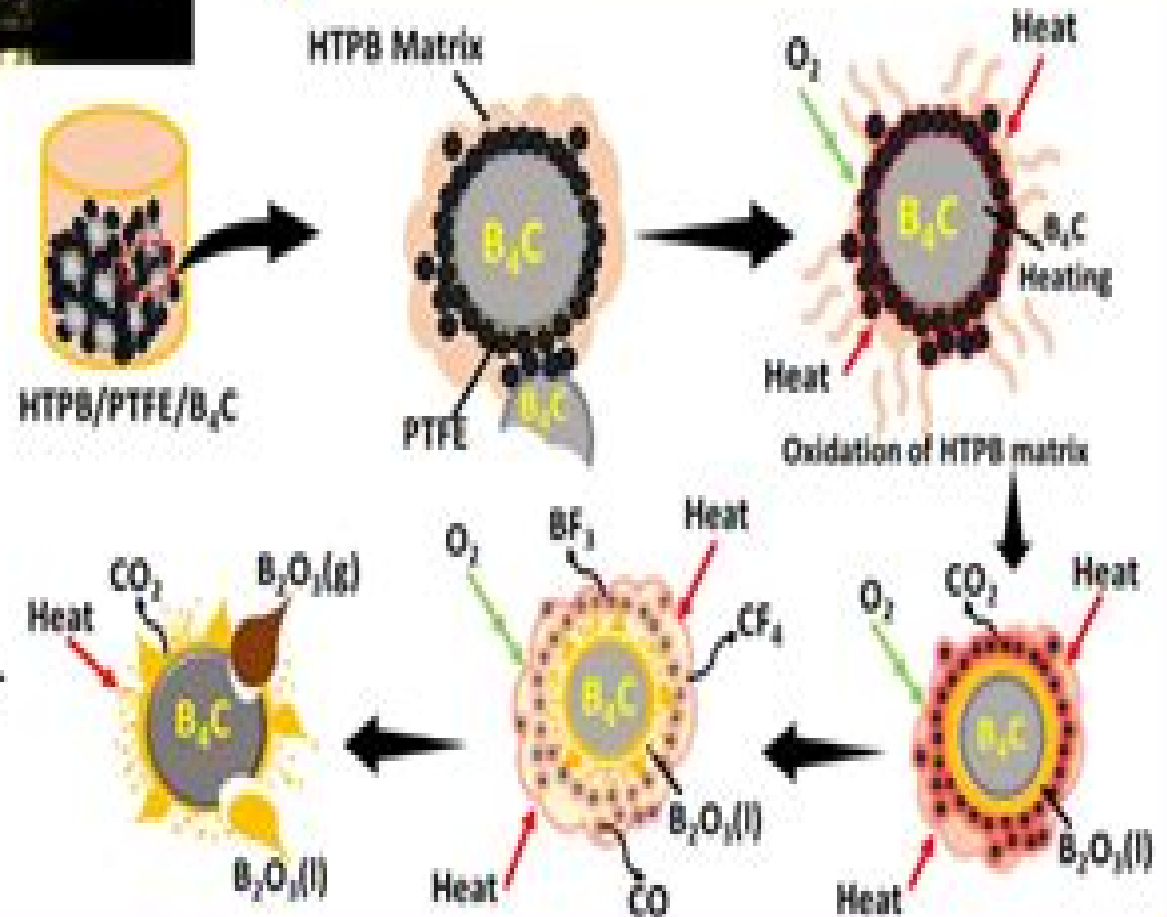
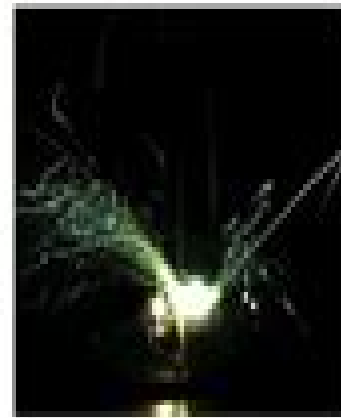
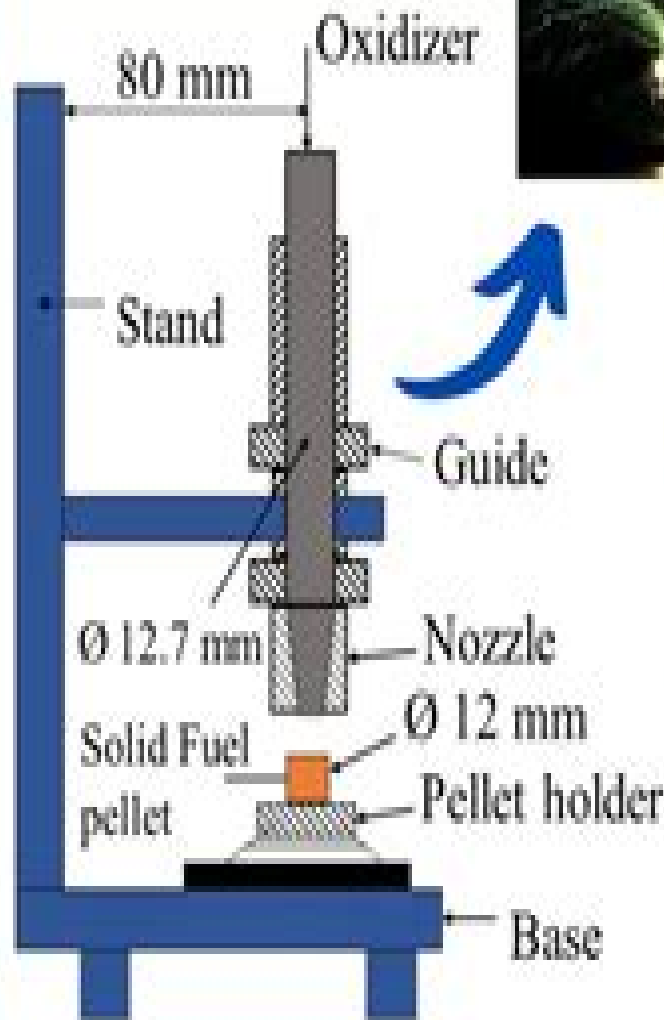


Combustion of Boron Carbide-PTFE Solid Fuel for SFRJ and HRE



Combustion Of Boron Based Solid Propellants And Solid Fuels

**XiaoHong Zhang, WeiQiang Pang, Luigi
T DeLuca, Yu Zhao**



Combustion Of Boron Based Solid Propellants And Solid Fuels:

Combustion of Boron Based Solid Propellants & Solid Fuel Kenneth K. Kuo, Roland Pein, 1993-01-04 *Boron-Based Fuel-Rich Propellant* WeiQiang Pang, 2019-04-09 Boron Based Fuel Rich Solid Rocket Propellant Technology is a professional book that systematically introduces the latest research progress for boron based fuel rich solid propellants It covers surface modifications coating and agglomerating techniques granulation and characterization of amorphous boron powders and its application to fuel rich solid rocket propellants Technologies for controlling the processing methods and combustion performance of fuel rich propellants are examined and the book concludes with a summary of the research progress in boron based fuel rich solid propellants and a look forward to the foreseeable development trends of military applications

High-energy Combustion Agents of Organic Borohydrides XiaoHong Zhang, WeiQiang Pang, Luigi T DeLuca, Yu Zhao, 2023-08-25 Combustion agents for solid fuel propellants and explosives have gained widespread interest in recent years Their high gravimetric heat of combustion enhances the performance of modern energetic materials Borohydride compounds have proved to be excellent candidates in this application High energy Combustion Agents of Borohydrides covers the most recent developments in the advanced combustion agents of borohydrides Experimental studies covering the synthesis and characterisation of borohydrides are examined as well as the interactions between borohydride and propellant ingredients The properties of BHN nano Al composites are discussed as is the effect of borohydrides on the properties of fuel rich solid propellants The book concludes with a summary of the prospective development of high energy combustion agents in solid propellants and explosives and looks into the future development of military applications Authored by renowned experts in the field this book will appeal to researchers in academia and industry seeking a better understanding of how to improve the ignition and combustion performance of propellants and explosives **Innovative Energetic Materials: Properties,**

Combustion Performance and Application WeiQiang Pang, Luigi T. DeLuca, Alexander A. Gromov, Adam S. Cumming, 2020-07-04 This book focuses on the combustion performance and application of innovative energetic materials for solid and hybrid space rocket propulsion It provides a comprehensive overview of advanced technologies in the field of innovative energetic materials and combustion performance introduces methods of modeling and diagnosing the aggregation agglomeration of active energetic metal materials in solid propellants and investigates the potential applications of innovative energetic materials in solid and hybrid propulsion In addition it also provides step by step solutions for sample problems to help readers gain a good understanding of combustion performance and potential applications of innovative energetic materials in space propulsion This book serves as an excellent resource for researchers and engineers in the field of propellants explosives and pyrotechnics **Theories of Turbulent Combustion in High Speed Flows** Paul A.

Libby, Forman Arthur Williams, 1991 *Applications of Turbulent and Multiphase Combustion* Kenneth K. Kuo, Ragini Acharya, 2012-05-01 A hands on integrated approach to solving combustion problems in diverse areas An understanding of

turbulence combustion and multiphase reacting flows is essential for engineers and scientists in many industries including power generation jet and rocket propulsion pollution control fire prevention and safety and material processing This book offers a highly practical discussion of burning behavior and chemical processes occurring in diverse materials arming readers with the tools they need to solve the most complex combustion problems facing the scientific community today The second of a two volume work Applications of Turbulent and Multiphase Combustion expands on topics involving laminar flames from Professor Kuo's bestselling book Principles of Combustion Second Edition then builds upon the theory discussed in the companion volume Fundamentals of Turbulent and Multiphase Combustion to address in detail cutting edge experimental techniques and applications not covered anywhere else Special features of this book include Coverage of advanced applications such as solid propellants burning behavior and chemical boundary layer flows A multiphase systems approach discussing basic concepts before moving to higher level applications A large number of practical examples gleaned from the authors experience along with problems and a solutions manual Engineers and researchers in chemical and mechanical engineering and materials science will find Applications of Turbulent and Multiphase Combustion an indispensable guide for upgrading their skills and keeping up with this rapidly evolving area It is also an excellent resource for students and professionals in mechanical chemical and aerospace engineering

Energetic Materials Ulrich Teipel, 2006-03-06 Incorporation of particular components with specialized properties allows one to tailor the end product's properties For instance the sensitivity burning behavior thermal or mechanical properties or stability of energetic materials can be affected and even controllably varied through incorporation of such ingredients This book examines particle technologies as applied to energetic materials such as propellants and explosives thus filling a void in the literature on this subject Following an introduction covering general features of energetic materials the first section of this book describes methods of manufacturing particulate energetic materials including size reduction crystallization atomization particle formation using supercritical fluids and microencapsulation agglomeration phenomena special considerations in mixing explosive particles and the production of nanoparticles The second section discusses the characterization of particulate materials Techniques and methods such as particle size analysis morphology elucidation and the determination of chemical and thermal properties are presented The wettability of powders and rheological behavior of suspensions and solids are also considered Furthermore methods of determining the performance of particular energetic materials are described Each chapter deals with fundamentals and application possibilities of the various methods presented with particular emphasis on issues applicable to particulate energetic materials The book is thus equally relevant for chemists physicists material scientists chemical and mechanical engineers and anyone interested or engaged in particle processing and characterization technologies

32nd AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, 1996 **Thermal Decomposition and Combustion of Explosives and Propellants** G.B. Manelis, 2003-01-30 This unique book investigates the synthesis

kinetics and thermal decomposition properties and processing of energy producing materials used in propellants explosives pyrotechnic and gas generating compositions Thermal Decomposition and Combustion of Explosives and Propellants provides several mechanisms and stages for the thermal decomposition and combustion reactions of most flammable compounds and their mixtures such as aliphatic and aromatic nitrocompounds nitramines nitroesters organic azides furazanes tetrazols difluoroamines polynitrous heterocycles and onium salts The authors examine the classic problem of the dependence of explosive activity on molecular structure using applications to predict the stability compatibility and the stabilization of explosives and propellant components They also offer experimental results examining factors such as subsurface decomposition evaporation and dispersion of materials which can be used to control combustion of condensed systems Providing several approaches to stability safety and controlled combustion of flammable substances Thermal Decomposition and Combustion of Explosives and Propellants is a multi dimensional resource for graduate students researchers and professionals interested in chemical kinetics the combustion and synthesis of high energy materials criminal forensics and the field of explosives powders and solid rocket propellants

Kent and Riegel's Handbook of Industrial Chemistry and Biotechnology James A. Kent, 2010-05-27 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors 30 of the book's 38 chapters but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in new chapters on Green Engineering and Chemistry Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Other new chapters include Nanotechnology Environmental Considerations in Facilities Planning Biomass Utilization Industrial Microbial Fermentation Enzymes and Biocatalysis the Nuclear Industry and History of the Chemical Industry

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