

Solid Propellant Chemistry Combustion And Motor Interior Ballistics Progress In Astronautics And Aeronautics

Solid Propellant Chemistry Combustion and Motor Interior Ballistics 1999The Chemistry of PropellantsSolid Propellant Chemistry, Combustion, and Motor Interior BallisticsPropellants and ExplosivesSolid Propellant Chemistry, Combustion, and Motor Interior Ballistics, Volume 185Thermal Decomposition and Combustion of Explosives and PropellantsPropellant ChemistryChemical and Physical Processes in CombustionThe Chemistry of PropellantsEnergetics of Propellant ChemistryCombustion, Explosion, and Shock WavesPropellants and ExplosivesNonsteady Burning and Combustion Stability of Solid Propellants41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit 10-13 July 2005, Tucson, Arizona: 05-3950 - 05-3999Combustion of Energetic MaterialsJournal of Propulsion and PowerNonsteady Burning and Combustion Stability of Solid PropellantsThe Performance of Chemical PropellantsAero DigestInnovative Energetic Materials: Properties, Combustion Performance and Application Vigor Yang S. S. Penner Vigor Yang Naminosuke Kubota Vigor Yang G.B. Manelis Stanley F. Sarner Combustion Institute (U.S.) Eastern States Section. Fall Technical Meeting S. S. Penner Bernard Siegel Naminosuke Kubota Luigi De Luca Kenneth K. Kuo Martin Summerfield Irvin Glassman WeiQiang Pang

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the chemistry of propellants is a collection of papers and comments presented at the meeting on the chemistry of propellants held in paris france on june 8 12 1959 organized by the agard combustion and propulsion panel this book is organized into six parts encompassing 25 chapters that serve as an introduction to the broad and important subject of propellant chemistry and propulsion applications the first part deals with the sources availability and comparative costing of propulsion system the second and third parts discuss the theoretical thermodynamic and experimental aspects of liquid and solid propellants the fourth part examines the main problems concerning preparation storage and use of propellants for ramjet while the fifth part looks into the factors leading to deposits in jet engines and some of the

consequences of their existence the sixth part covers the advantages of the high energy chemical propellants including fluorine and hydrogen combustion and propulsion scientists and researchers will find this book beneficial

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

this third edition of the classic on the thermochemical aspects of the combustion of propellants and explosives is completely revised and updated and now includes a section on green propellants and offers an up to date view of the thermochemical aspects of combustion and corresponding applications clearly structured the first half of the book presents an introduction to pyrodynamics describing fundamental aspects of the combustion of energetic materials while the second part highlights applications of energetic materials such as propellants explosives and pyrolants with a focus on the phenomena occurring in rocket motors finally an appendix gives a brief overview of the fundamentals of aerodynamics and heat transfer which is a prerequisite for the study of pyrodynamics a detailed reference for readers interested in rocketry or explosives technology

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 deco

demonstrated by the use of a number of colored photographs during burning new applications of energetic materials such as pyrolants and ducted rockets for an advanced propulsion system are also described

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

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

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