High Pressure Liquid Oxygen Kerosene Engine Combustion

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Advances in Guidance, Navigation and Control NASA Authorization for Fiscal Year 1964 Russia in Space Department of Defense Appropriations for 2001: Secretary of Defense and Chairman, Joint Chiefs of Staff Department of Defense appropriations for 2001 Department of Defense Appropriations Footprints in the Dust 1966 NASA Authorization, Hearings... Hearings Independent Offices Appropriations Zhen-Guo Wang United States. Congress. House. Committee on Science and Astronautics United States. Congress. House. Committee on Science and Astronautics United States. Congress. Senate. Committee on Aeronautical and Space Sciences Mohammed Habiballah Synthesis Group (U.S.) United States. National Aeronautics and Space Administration Corrado Casci Naomi Oreskes Steven J. Zaloga Liang Yan United States. Congress. Senate. Committee on Aeronautical and Space Sciences Brian Harvey United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense Colin Burgess United States. Congress. House. Science and Astronautics United States. Congress. House United States. Congress. House. Committee on Appropriations. Subcommittee on Independent Offices and Department of Housing and Urban Development

this book concentrates on modeling and numerical simulations of combustion in liquid rocket engines covering liquid propellant atomization evaporation of liquid droplets turbulent flows turbulent combustion heat transfer and combustion instability it presents some state of the art models and numerical methodologies in this area the book can be categorized into two parts part 1 describes the modeling for each subtopic of the combustion process in the liquid rocket engines part 2 presents detailed numerical methodology and several representative applications in simulations of rocket engine combustion

fuels and new propellants is a compendium of papers presented at a conference on fuel and new propellants by the federazione associazioni scientifiche e tecniche sponsored by the consiglio nazionale delle ricerche held at milan italy in june 1963 the book presents the researches made on the scientific technical and industrial applications of new and improved fuels and propellants the collection contains papers that deal with residual fuels and the marine diesel engine the characteristics of processes for the production of high octane fuels liquid and solid propellants for space rockets and technical problems in the production of

solid and liquid propellants petrochemists chemists and researchers in the field of fuels and propellants will find this text interesting and insightful

investigations of how the global cold war shaped national scientific and technological practices in fields from biomedicine to rocket science the cold war period saw a dramatic expansion of state funded science and technology research government and military patronage shaped cold war technoscientific practices imposing methods that were project oriented team based and subject to national security restrictions these changes affected not just the arms race and the space race but also research in agriculture biomedicine computer science ecology meteorology and other fields this volume examines science and technology in the context of the cold war considering whether the new institutions and institutional arrangements that emerged globally constrained technoscientific inquiry or offered greater opportunities for it the contributors find that whatever the particular science and whatever the political system in which that science was operating the knowledge that was produced bore some relation to the goals of the nation state these goals varied from nation to nation weapons research was emphasized in the united states and the soviet union for example but in france and china scientific independence and self reliance dominated the contributors also consider to what extent the changes to science and technology practices in this era were produced by the specific politics anxieties and aspirations of the cold war contributors elena aronova erik m conway angela n h creager david kaiser john krige naomi oreskes george reisch sigrid schmalzer sonja d schmid matthew shindell asif a siddigi zuoyue wang benjamin wilson

the prevailing western view of russia's cold war strategic nuclear weapons policy is that it resulted from a two part interplay between the leaders of the communist party and the military steven j zaloga has found that a third contributor the russian defense industry also played a vital role drawing from elusive russian source material and interviews with many proud russian and ukrainian engineers zaloga presents a definitive account of russia's strategic forces who built them and why the book is the first in english to refer to the weapons by their actual soviet names providing the bedrock for future works helpful appendices list u s nato and other designations and the illustrations provide clear visual references

this book features the latest theoretical results and techniques in the field of guidance navigation and control gnc of vehicles and aircrafts it covers a wide range of topics including but not limited to intelligent computing communication and control new methods of navigation estimation and tracking control of multiple moving objects manned and autonomous unmanned systems guidance navigation and control of miniature aircraft and sensor systems for guidance navigation and control etc presenting recent advances in the form of illustrations tables and text it also provides detailed information of a number of the studies to offer readers insights for their own research in addition the book addresses fundamental concepts and studies in the development of gnc making it a valuable resource for both beginners and researchers wanting to further their understanding of guidance navigation and control

until the apollo soyuz flight of 1972 the russian space program was shrouded in such complete secrecy that only rumors of failures or catastrophes reached the west this comprehensive history of the russian space program from its sputnik origins to the privatized mir space station addresses the technical political historical human and organizational issues and provides a balanced focus on the manned and unmanned programs it is the first book to assess the russian space program including the 10 year period since the fall of communism

arriving on the fortieth anniversary of apollo 11 as nasa prepares to return astronauts to the moon footprints in the dust offers a thorough engrossing and multifaceted account of the apollo missions øthe flight of apollo 11 was a triumph of human endeavor persistence and technology one of the greatest achievements in human history this book begins with the mission that sent neil armstrong and edwin buzz aldrin to the moon then follows american spaceflight through the harrowing rescue of apollo 13 before moving on to the successful joint apollo soyuz mission in 1975 drawing on extensive research and interviews with key figures in the space program the authors convey the human drama and chart the technological marvels that went into the apollo missions they also put the accomplishments of american spaceflight into historical context examining the competitive space race with the soviet union the roles of politics and personality in launching the mission and the consequences practical and profound of this giant leap for mankind

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