



Development Of Wax Fuel Grain For Hybrid Rocket Motor

V. H. Saran, Rakesh Kumar Misra



Development Of Wax Fuel Grain For Hybrid Rocket Motor:

Recent Advances in Aerospace Engineering Sanjay Singh, Perumalla Janaki Ramulu, Sachin Singh Gautam, 2024-04-27

The book presents the select proceedings of 2nd International Conference on Modern Research in Aerospace Engineering MRAE 2023. It covers the latest research in the field of aerospace engineering and space technology. Various topics covered in this book are aerospace propulsion, space research, avionics and instrumentation, aerodynamics, wind tunnel and computational fluid dynamics, structural analysis and finite element method, aerospace materials and manufacturing system, air safety and airworthiness, aircraft control system and stability, aircraft maintenance overhauling, NDT and other technical tests, autonomous airborne systems, airborne defence systems, AI and ML applications in aerospace engineering, unmanned aerial vehicles and flight mechanics. The book will be useful for researchers and professionals in aerospace engineering and space science and technology.

Advances in Hybrid Rocket Technology and Related Analysis Methodologies

Carmine Carmicino, 2020-12-07. The book is an amazing collection of technical papers dealing with hybrid rockets. Once perceived as a niche technology for about a decade, hybrid rockets have enjoyed renewed interest from both the propulsion technical community and industry. Hybrid motors can be used in practically all applications where a rocket is employed, but there are certain cases where they present a superior fit, such as sounding rockets, tactical missile systems, launch boosters, and the emerging field of commercial space transportation. The novel space tourism business indeed will benefit from their safety and lower recurrent development costs. The subjects addressed in the book include the cutting edge technology employed to push forward this relatively new propulsion concept, spanning systems to improve fuel regression rate control, of the mixture ratio to optimize performance, computational fluid dynamics applied to the simulation of the internal ballistics, and some other novel system applications.

Proceedings of the International Conference on Modern Research in Aerospace Engineering

Sanjay Singh, Pushkar Raj, Samir Tambe, 2018-02-09. This book includes high quality research papers presenting the latest advances in aerospace and related engineering fields. The papers are organized according to six broad areas: i) Aerospace Propulsion, ii) Space Research, Avionics and Instrumentation, iii) Aerodynamics, Wind Tunnel and Computational fluid dynamics, CFD, iv) Structural Analysis and Finite Element Method, FEM, v) Materials, Manufacturing and Air Safety, and vi) Aircraft Environmental and Control System and Stability, making it easy for readers to find the information they require. Offering insights into the state of the art in aerospace engineering, the original research presented is valuable to academics, researchers, undergraduate and postgraduate students, as well as professionals in industry and R D. The clearly written book can be used for the validation of data and the development of experimental and simulation techniques, as well as other mathematical approaches.

Proceedings of International Conference of Aerospace and Mechanical Engineering 2019

Parvathy Rajendran, Nurul Musfirah Mazlan, Aslina Anjang Ab Rahman, Nurulasikin Mohd Suhadis, Norizham Abdul Razak, Mohd Shukur Zainol Abidin, 2020-06-12. This book presents selected papers from the International Conference of

Aerospace and Mechanical Engineering 2019 AeroMech 2019 held at the Universiti Sains Malaysia s School of Aerospace Engineering Sharing new innovations and discoveries concerning the Fourth Industrial Revolution 4IR with a focus on 3D printing big data analytics Internet of Things advanced human machine interfaces smart sensors and location detection technologies it will appeal to mechanical and aerospace engineers *Hybrid Rocket Propulsion Design Handbook* Ashley Chandler Karp,Elizabeth Therese Jens,2023-10-07 Hybrid Rocket Propulsion Design Handbook provides system scaling laws design methodologies and a summary of available test data giving engineers all the tools they need to develop realistic hybrid system designs Important supporting theory from chemistry thermodynamics and rocket propulsion is addressed helping readers from a variety of backgrounds to understand this interdisciplinary subject This book also suggests guidelines for standardized reporting of test data in response to difficulties researchers have in working with results from different research institutes Covers general theory recent advances and current fragmented experimental results of hybrid rocket engines Outlines testing standards for hybrid researchers Provides guidance on how to use a freely available online code from NASA **Advances in Systems Engineering** V. H. Saran,Rakesh Kumar Misra,2021-01-23 This book comprises select proceedings of the 43rd National Systems Conference on Innovative and Emerging Trends in Engineering Systems NSC 2019 held at the Indian Institute of Technology Roorkee India The contents cover latest research in the highly multidisciplinary field of systems engineering and discusses its various aspects like systems design dynamics analysis modeling and simulation Some of the topics covered include computing systems consciousness systems electrical systems energy systems manufacturing systems mechanical systems literary systems social systems and quantum and nano systems Given the scope of the contents this book will be useful for researchers and professionals from diverse engineering and management background Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering Nicolas Gascoin,E. Balasubramanian,2020-09-26 This book gathers the best articles presented by researchers and industrial experts at the International Conference on Innovative Design Analysis and Development Practices in Aerospace and Automotive Engineering I DAD 2020 The papers discuss new design concepts and analysis and manufacturing technologies with a focus on achieving improved performance by downsizing improving the strength to weight ratio fuel efficiency and operational capability at room and elevated temperatures reducing wear and tear addressing NVH aspects while balancing the challenges of Euro VI Bharat Stage VI emission norms greenhouse effects and recyclable materials Presenting innovative methods this book is a valuable reference resource for professionals at educational and research organizations as well as in industry encouraging them to pursue challenging projects of mutual interest **Solar Electric Water and Air Tribrid Auto Engine** Chandan Deep Singh,Kanwaljit Singh,Davinder Singh,Talwinder Singh,Jasvinder Singh,Rajdeep Singh,2025-08-03 Solar Electric Water and Air Tribrid Auto Engines is a must have for anyone in the automotive industry as it offers a comprehensive analysis of cutting edge technologies that could revolutionize vehicle design

and fuel efficiency paving the way for a more sustainable future This book analyzes the performance of solar electric water and air based engines These technologies can be combined to create the revolutionary tribrid engine that combines the three technologies to create an environmentally friendly automobile Electric motors are known for their low emissions and solar has the potential to amplify this ability Water powered engines react with oxygen in the air to create fuel causing fewer emissions and improved fuel economy Compressed air motors are pressure driven diminishing our reliance on fossil fuels Their combined potential in the tribrid model presents revolutionary innovations for how we power automobiles This volume provides an in depth exploration of these technologies providing an advanced understanding of their fundamentals and potential for combination in a tribrid model making it essential for innovators in the automotive sector

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Rocket Design and Construction Fundamentals Richard Skiba,2024-12-20 This book delves into the fascinating world of rocketry exploring its historical milestones fundamental principles and the cutting edge technologies shaping the future of space exploration The book is structured into six parts each meticulously covering essential aspects of rocket design construction and applications Starting with the historical evolution of rockets and the principles of propulsion it moves into the intricate details of rocket system components types of propulsion technologies and advanced guidance systems Readers will gain a deep understanding of the materials structures and engineering practices that make modern rockets possible alongside insights into innovative manufacturing techniques like 3D printing and automation From translating complex designs into tangible assemblies to rigorous testing and validation the book offers a hands on perspective on building and launching rockets Applications in space exploration satellite deployment military uses and commercial ventures are examined in detail highlighting the critical role rockets play in advancing humanity s reach into space The final sections address the future of rocketry focusing on reusable systems green propulsion technologies AI driven innovations and next generation propulsion concepts like nuclear and antimatter systems Challenges such as regulatory hurdles ethical considerations and the competitive dynamics between nations and private entities are explored along with the

opportunities emerging in the rapidly growing space technology market This book is ideal for aerospace professionals engineering students and space enthusiasts who want a guide to the science and engineering behind rockets It serves as both an educational resource and an inspirational roadmap for anyone looking to understand the intricacies of rocketry and its pivotal role in space exploration Whether you re an aspiring engineer a researcher or a space enthusiast **Rocket Design and Construction Fundamentals** offers the knowledge and insights needed to grasp the challenges and opportunities in this dynamic field 40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: 04-3800 - 04-3849 ,2004 **44th Congress of the International Astronautical Federation ,1993** **Scientific and Technical Aerospace Reports ,1969** **30th AIAA/ASME/SAE/ASEE Joint Propulsion Conference ,1994** 92-3300 - 92-3334 ,1992 **Encyclopedia of Physical Science and Technology ,2002** Of the Encyclopedia of Physical Science and Technology Has been completely updated with no less than 90% revised material and 50% new content throughout the volumes Presents eighteen volumes nearly 800 authoritative articles and 14 500 pages Is lavishly illustrated with over 7 000 photographs illustrations and tables Presents an increased emphasis on the hottest topics such as information processing environmental science biotechnology and biomedicine Includes a final Index Volume containing Thematic Relational and Subject indexes *International Aerospace Abstracts ,1992* **Performance Characterization of Complex Fuel Port Geometries for Hybrid Rocket Fuel Grains** Andrew Bath,2012 Extensive research in hybrid rocket motors has taken place at the department of Mechanical and Aerospace Engineering at USU Utah State University in the last several years USU has one of the few facilities in the country capable of static test firing rocket motors on campus which allows for fast paced testing and development not available elsewhere Research has involved investigating propulsion devices for a range of applications including micro satellite thrusters hot gas generators and even jet assisted takeoff kick motors Hybrid motors have the advantage of safety over any other chemical propulsion Since the fuel and oxidizer are stored seperately they are relatively inert until combined in a hot gas environment making them ideal for applications where safety is a major concern such as a secondary or tertiary payload for a major rocket launch Development of this technology has been slow as poorly designed hybrid rocket motors are not competitive with other chemical propulsion technologies but recent advances made at USU and other universities are beginning to show that hybrids do have a place in the market Hybrid research at USU has been ongoing for several years with a budget of around USD 500 000 over the last three years Most of this money has funded instrumentation and manufacturing materials as well as financial support for the graduate student research team This funding has come from multiple sources including the Space Dynamics Lab SDL the State of Utah and NASA Many technical papers have been presented at technical conferences and published in peer reviewed journals with more on the way Part of the research into hybrid rockets involves 3D printing hybrid fuel grains to obtain complex geometries inside the motor to improve performance This capability has given rise to the need to be able to model the geometric regression of these

complex fuel grain structures as they burn This model must be easy to develop for any fuel grain geometry with the ability to model anything that is printable Current methods of geometric regression are either custom designed for each geometry or are slow and unstable mathematical simulations An alternative method proposed is to use image processing methods to regress a fuel grain This means all that is required to model the burnback of fuel grain geometry is a picture of a cross section of the fuel grain which is trivial to obtain from a CAD file or other sources This research will be an enabling technology for modeling new types of fuel grains that increase the performance of hybrid rocket motors allowing them to have more competitive performance against other chemical propulsion technologies

Development of a Rocket Motor Test System and a Study of Hybrid Rocket Fuel Grains William Ray Patterson, 2009 A rocket test system was developed and fabricated for the purpose of testing hybrid rocket motors The test system includes a rocket test stand load cell and data acquisition system that is capable of safely and accurately recording thrust data from each burn This paper documents the test system design and operation The test system has been used to study the performance results from using multiple types of fuel utilized in hybrid motor systems The types of hybrid motors used typically have thrust values below 1000 lbf Along with different fuels different motor configurations were also used during testing to determine if each hybrid rocket fuel reacted similarly under altering conditions

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