

# 《2010亚太航空航天技术研讨会论文集》

## 图书基本信息

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## 内容概要

《2010亚太航空航天技术研讨会论文集(套装全2册)》主要内容包括：In recent years, the Asia-Pacific area has witnessed great development in the fields of aeronautics and astronautics. To further accelerate the advancement and provide an efficient communication platform for researchers and industry engineers, the Chinese Society of Aeronautics and Astronautics (CSAA), the Korean Society for Aeronautical and Space Sciences (KSAS), the Japan Society for Aeronautical and Space Sciences (JSASS) and the Royal Aeronautical Society-Australian Division (RAeS Australian Division) have made a joint endeavor to hold a series of Asia-Pacific International Symposia on Aerospace Technology (APISAT) since 2009. Being a series of annual symposia, APISAT has been held in the countries of the four CO-organizers in turn. After the success of APISAT 2009 in Japan, CSAA has the great honor to host APISAT 2010 in Xi'an, Shaanxi province, China from September 13 to 15, 2010. CSAA is pleased to take this opportunity to serve researchers and industry engineers working with aerospace technology in Asia-Pacific nations. APISAT 2010 has drawn much attention from the aerospace community and gained strong supports from all CO-organizing societies. The International Program Committee received 392 abstracts and accepted 292 of them after peer reviews. As the archive of a comprehensive symposium on aerospace technology, the proceedings cover the design of flight vehicles (including helicopters, unmanned aerial vehicles and satellites), aero-engines and spacecraft propulsions, aerodynamics, computational fluid mechanics, wind tunnel testing, aero-acoustics, aero-elasticity, guidance and control, navigation and communication, air traffic control, flight simulation, structure analysis and testing, materials and composites, etc. The symposium aims to provide a wide range of information in the advancement of aerospace technology. We take this opportunity to extend the most sincere gratitude to the CO-organizing societies, Northwestern Polytechnical University as a local organizer, all sponsors and working staff for their great contributions to the success of APISAT 2010.

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## 书籍目录

《2010亚太航空航天技术研讨会论文集（第一卷）》 Aerodynamics and Design Aircraft, Helicopter and UAV Design Research Activities on Supersonic Technology at JAXA An Orbit Maneuver Optimal Algorithm Based on Time Performance Index Lateral-Directional Departure Susceptibility and Divergence of High Lift Hypersonic Vehicle “ CST ” Parametric Geometry Representations for Waverider Towards Efficient High-Dimensional Aerodynamic Shape Optimization. Surrogate Modeling Via Gradient-Enhanced Kriging Numerical Study on the Performance of the Ventilation Cooling System for Helicopter Engine Nacelle in Hovering The Role Analysis in Contingency Plan for A Heavy Payload Airship vd~h Lift and Buoyancy Integration Hypersonic Vehicles Configuration Design and Aerodynamic Characteristics Study Knowledge Based Engineering Platform for Multidisciplinary Fuselage Design and Analysis ..... 《2010亚太航空航天技术研讨会论文集（第二卷）》

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