

图书基本信息

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内容概要

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 APISAT2009 in Japan , CSAA has the great honor to host APISAT2010 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 . APISAT2010 has drawn much attention from the aerospace community and gained strong support 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 .

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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