

1. Record Nr.	UNINA9910760297903321
Autore	Karakoc T. Hikmet
Titolo	Solutions for Maintenance Repair and Overhaul : Proceedings of the International Symposium on Aviation Technology, MRO, and Operations 2021 // edited by T. Hikmet Karakoc, József Rohács, Dániel Rohács, Selçuk Ekici, Alper Dalkiran, Utku Kale
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	9783031384462 3031384466
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (534 pages)
Collana	Sustainable Aviation, , 2730-7786
Altri autori (Persone)	RohácsJózsef RohácsDániel EkiciSelçuk DalkiranAlper KaleUtku
Disciplina	629.1
Soggetti	Aerospace engineering Astronautics Vehicles Mechanical engineering Aerospace Technology and Astronautics Vehicle Engineering Mechanical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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-- Chapter 7. Developing New Concepts for the Integration of Drones into the General Air Transport Management and Urban Transport -- Chapter 8. Development of Aircraft Maintenance Procedures Using Lean Tools -- Chapter 9. Effect of Core Stitching on Flexural Properties of Lightweight Sandwich Composites -- Chapter 10. Environmental Impacts and Sustainability Practices of Airports -- Chapter 11. Evaluating Public Transport Development Projects by Multi-Criteria Methods -- Chapter 12. Human Error Assessment and Reduction Technique in Aircraft Maintenance -- Chapter 13. Assessment of Environmental Performance Indicators Based on Fuel Performance in an Aircraft Engine -- Chapter 14. Identification Performance Fields in Ground Handling Operations to Corporate Performance -- Chapter 15. Impact Performance of the Kaolin Filled Fiber Reinforced Polymer Facing Sandwich Structures -- Chapter 16. Analysis of the Airport Sustainability Plan in The Context of EONS Components -- Chapter 17. Optimizing Distributed Electric Aero-Propulsion Integration for a Novel Canard Aircraft Design -- Chapter 18. Effects of Cruise Flight Conditions on Power and Nox Emissions for High By-Pass Turbofan Engine -- Chapter 19. Conceptual Design and Sizing of Lidar Equipped Solar Powered HALE UAV for Coastal Surveillance in India -- Chapter 20. Investigation of Heat Loss by Radiation from External Walls of Airport Buildings Depending on Different Sky Cloudiness Factor -- Chapter 21. Optimal Layout Design of Multi-Rotor Vehicle Based on PSO Algorithm -- Chapter 22. Development of solar sail for interstellar exploration -- Chapter 23. Paperless Operations in Apron: A Case Study -- Chapter 24. Aircraft Inspection Using Drones – Benefits and Related Safety Concerns -- Chapter 25. Sizing and Performance Analysis of a Single-seat Tandem Helicopter -- Chapter 26. Optimization of the Surface of Drone Propeller Manufactured in 3d Printer -- Chapter 27. Preparation of Smart Gels with Stiffening Behavior -- Chapter 28. Noise and Vibration Measurement System -- Chapter 29. A New Encryption Key Generator Design with True Random Bits -- Chapter 30. A Case Study on Investigating Probabilistic Characteristics of Wind Speed Data for Green Airport -- Chapter 31. Enhancing Flight Safety Training and Prevention of Aviation Accidents with the Use of Physics and Aeronautics -- Chapter 32. Satellite Formation Flight Via NRM&EKF State Estimation Method -- Chapter 33. Evaluating the Effects of a Morphed Trailing Edge Flap for Aeroacoustics Applications -- Chapter 34. Modelling of Bird Strike for The Pilot Cabin Window in Side-By-Side Seated Aircraft -- Chapter 35. Impact Of Covid-19 On Air Traveler Behavior -- Chapter 36. The Feasibility of Hydrogen Fuel Cells as a Solution towards Zero-Emissions in General Aviation Aircraft -- Chapter 37. Conceptual Design of Piezoelectric Based Energy Harvesting Seats for Commercial Aircraft -- Chapter 38. Effects Of Flow Pulsation on Shock Wave/Boundary Layer Interaction in Supersonic Isolator -- Chapter 39. Effect Of Bypass Mass Injection on Thrust Vectoring of a Supersonic Micro Nozzle: A DSMC Investigation -- Chapter 40. Research on Starting Optimizing Control and Active Load Fluctuation Control of More Electric Auxiliary Power Unit -- Chapter 41. Computational Analysis of Re-Entry Space Vehicle at Supersonic and Hypersonic Speed -- Chapter 42. Sensor Fault Detection, Isolation and Accommodation Applied to B-747 -- Chapter 43. Acoustic Emission and Acousto-Ultrasonic Monitoring in High Temperature Environments -- Chapter 44. Explicit Dynamic Finite Element Simulation of Plate Impacts for Damage Localisation -- Chapter 45. Macrocognition for Preparedness in Aviation -- Chapter 46. Simulation of A 6DOF Nonlinear Satellite Missile -- Chapter 47. Advanced Data Analytics and Digital Technologies for Smart and

Sustainable Maintenance -- Chapter 48. Developing Models and Methods for Autonomous Drones in Urban Air Transport -- Chapter 49. Using a New Kerosen-Flame Bench Test to Analyse at Small Scales the Fire Reaction of Fiber Reinforced Polymer Matrix Composites -- Chapter 50. Impacts of Aircraft on Environment in Europe -- Chapter 51. Hybrid Nanoparticle Reinforced Polyurethane Composites Mechanical Behavior -- Chapter 52. Design of Experiments for Wind Tunnel Testing of 53° Sweep Lambda UCAV Configuration -- Chapter 53. Determination of Aerodynamic Characteristics for Leading-Edge Tubercle NACA 0015 Airfoil at Low Reynolds Number -- Chapter 54. Comparison of GPS Based Position Estimation Methods -- Chapter 55. Investigation of the Accuracy of Terrestrial Radio Navigation Methods for Determining Aircraft Position -- Chapter 56. Development of an Efficient Finite Element Model for the Analysis of Buckling, Debonding and Collapse Characteristics of Composite Stiffened Panels under Compressive Loading -- Chapter 57. A Conceptual Inventory of Entropy Management About Exergetic Sustainability Based on Different Cruise Altitude for Aircraft Engines.

Sommario/riassunto

The International Symposium on Aircraft Technology, MRO, and Operations (ISATECH) is a multi-disciplinary symposium that presents research on current issues in the field of aerospace. The conference provides a platform offering insights on the latest trends in aircraft technology, maintenance, repair, overhaul, and operations that offer innovative solutions to the challenges facing the aviation industry. ISATECH allows researchers, scientists, engineers, practitioners, policymakers, and students to exchange information, present new technologies and developments, and discuss future direction, strategies and priorities. Offers recent research on a wide array of topics; Addresses current MRO issues in aviation; Full proceedings of ISATECH 2021 held at the Budapest University of Technology and Economics.
