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Based Composites. -- Chapter 8. Theoretical Performance Analysis of High Entropy Alloys in Hybrid Rocket Motors. -- Chapter 9. Selection of Sustainable Aviation Fuels: An Expert-Based Comparative Approach. -- Chapter 10. Optimization of Vortex Generators for a Subsonic Aircraft Wing using Taguchi Method. -- Chapter 11. Airline Technological Services and Airline Passengers' Purchase Intention: An investigation. -- Chapter 12. The Effect of Air-blast Injector Design on Swirl Number and Spray. -- Chapter 13. Properties and Specifications of Sustainable Aviation Fuels and Conventional Aviation Fuels -- Chapter 14. Energy Minimization in CO2 Capture in a Natural Gas Power Plant. -- Chapter 15. Air Traffic Management Principles: A Case Study on How to Create a Sustainable System. -- Chapter 16. The Impact of COVID-19 on Air Cargo Transportation in Turkey. -- Chapter 17. Progress on PEM Fuel Cell Powered Unmanned Aerial Vehicle Research. -- Chapter 18. The Importance of Exergy for Sustainability Aviation. -- Chapter 19. Operation of New Generation Aircraft in the Emergency Response Service. -- Chapter 20. The Impact of SAF on Reducing NOx, SO2, and non-CO2 Emissions. -- Chapter 21. Evaluation of an UAS Based Service Business Model for Road Surface Monitoring.

Sommario/riassunto

Sustainable aviation involves developing long-term strategies to address the challenges faced by the aviation industry. The International Symposium on Sustainable Aviation is a multidisciplinary conference that focuses on research related to sustainability issues and future trends in aviation, considering economic, social, and environmental perspectives. The conference covers a wide range of current topics in aviation, such as enhancing aircraft fuel efficiency, promoting the use of biofuels, minimizing environmental impact, reducing greenhouse gas emissions, and addressing engine and airframe noise. The event provides a platform for researchers, scientists, engineers, practitioners, policymakers, and students to share information, present new technologies and developments, and discuss the future direction, strategies, and priorities in aviation and sustainability. Discusses future strategies and priorities in the field of aviation sustainability; Addresses a broad range of aviation topics with an emphasis on environmental issues; Provides access to the complete ISSA 2024 proceedings.