

1. Record Nr.	UNIORUON00207070
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Titolo	Dynamique de l'art Bidjogo (Guinée-Bissau) : contribution à une anthropologie de l'art des sociétés africaines / Danielle Gallois Duquette
Pubbl/distr/stampa	Lisboa, : Instituto de Investigaçao Científica Tropical, c1983. 261 p., 2 c. geogr. pieg., 76 c. di tav., : ill. ; 24 cm
Disciplina	709.6
Soggetti	AFRICA - Studi Etnologia - Africa
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9911047675203321
Autore	Mukandavire Zindoga
Titolo	Aviation Industry Trends – Technology Advancements, Regulations, and Sustainability : The 5th International Aviation Management Conference 2024 // edited by Zindoga Mukandavire, Hannah Al Ali, Kaitano Dube
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-031-89553-3
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (509 pages)
Collana	Sustainable Aviation, , 2730-7786
Altri autori (Persone)	AliHannah Al DubeKaitano
Disciplina	338.4762913334
Soggetti	Aerospace engineering Astronautics Renewable energy sources Transportation Sustainability Aerospace Technology and Astronautics Renewable Energy Transportation Economics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

## Nota di contenuto

Section I -- The Future of Flight: An Overview of Aviation Innovation -- Electrifying the Skies: Progress in Electric Aircraft -- The Hybrid Horizon: Merging Traditional and Electric Propulsion -- Autonomy in the Air: The Rise of Pilotless Aircraft -- Designing the Future: Aerodynamic Innovations -- Material Matters: The Role of Composites and Advanced Materials -- Propulsion Progress: The Evolution of Aircraft Engines -- Digital Skies: The Impact of AI and Big Data on Aviation -- Breaking the Sound Barrier: The Return of Supersonic Travel -- Section II: Regulations Shaping the Future -- Sky Law: An Introduction to Aviation Regulations -- Governing the Unmanned: Regulations for Drones and UAS -- Cybersecurity at 30,000 Feet: Protecting Data and Systems -- CORSIA and Beyond: International Environmental Regulations -- Navigating Local Skies: Regional Regulation Differences -- Keeping Passengers First: Evolving Rights and Protections -- Section III: The Green Flight Path -- Clearing the Air: Strategies for Emission Reduction -- Fueling Change: The Development and Impact of SAFs -- Operational Efficiencies: Sustainable Airport and Airline Operations -- Waste Not: In-flight Recycling and Reduction of Single-Use Plastics -- Carbon Commitments: Industry Pledges and Climate Initiatives -- Research for a Greener Tomorrow: Funding and Future Technologies -- Industry Perspectives and Case Studies -- Leading Voices: Interviews with Industry Innovators -- Success Stories: Case Studies of Advancements in Action -- Regulatory Change: Case Studies on Policy Impact -- Sustainable Journeys: Case Studies on Green Initiatives -- Conclusion -- The Flight Path Ahead: Synthesizing Trends and Predictions -- Appendix A: Glossary of Aviation Terms -- Appendix B: Summary of Key Aviation Policies -- Appendix C: Directory of Aviation Industry Resources.

## Sommaro/riassunto

Aviation Industry Trends – Technology Advancements, Regulations, and Sustainability: The 5th International Aviation Management Conference 2024 offers readers a comprehensive guide to sustainable aviation's current and future landscape. Emerging from the 5th International Aviation Management Conference (IAMC), the proceedings, provide an in-depth understanding of the transformative developments reshaping the skies and how the industry is responding to the demands of governance in an era of technological sophistication. The book examines the aviation industry's pivot towards sustainability and strategies intended to meet the ambitious goal of carbon neutrality. It covers cutting-edge advancements in aircraft technology, exploring the electrification of planes, the potential of hybrid systems, and the growing realm of autonomous flight. It looks at the groundbreaking improvements in aerodynamics, the use of advanced lightweight materials, and the revolutionary engine designs that set new fuel efficiency standards. This volume is an essential read for industry professionals, policymakers, students, researchers, and aviation enthusiasts. It provides a global view of how the industry can thrive while grounding its practices in ecological stewardship and regulatory compliance. Looks at cutting-edge advancements in aircraft technology and international sustainability efforts; Explores electric and hybrid aircraft, autonomous flight, and other concepts that will revolutionize air travel; Examines the latest regulations and global aviation policies, including safety, privacy, and environmental standards.