

1. Record Nr.	UNISA996208250103316
Titolo	Fashion and textiles
Pubbl/distr/stampa	Berlin : , : Springer, , 2014-
Descrizione fisica	1 online resource
Disciplina	EPUB
Soggetti	Textile industry Fashion Textile research Textiles et tissus - Industrie et commerce Textiles et tissus - Recherche Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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2. Record Nr.	UNINA9910548186203321
Titolo	Advanced Composites in Aerospace Engineering Applications / / edited by Norkhairunnisa Mazlan, S.M. Sapuan, R.A. Ilyas
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-88192-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (517 pages)
Disciplina	629.13252 629.10284
Soggetti	Composite materials Aerospace engineering Astronautics Building materials Materials Chemistry Biomaterials Composites Aerospace Technology and Astronautics Structural Materials Materials Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Advanced Polymer Composite Manufacturing Dimensions For Aerospace Engineering Applications -- 2. Impact Studies of Nano and Hybrid Composites -- 3. High Strain Rate Studies of Polymer and Hybrid Nanocomposites -- 4. Design Methodologies for Composite Structures in Aircraft Engines -- 5. Machining of Aerospace-Grade Composites and Related Stacks for Aircraft Applications -- 6. Advanced Potential Hybrid Biocomposites in Aerospace Applications: A comprehensive review -- 7. Finite element modelling of the effects of vent holes in carbon fibre reinforced composite laminates: analysis of stress field pattern -- 8. Mechanical, Thermal and Wear Behavior of SiC

Particle Strengthening of PMMA-Toughened Glass-Epoxy Hybrid Composite -- 9. An Overview on the Natural/Synthetic Fibre Reinforced Metal-Composite Sandwich Structures for Potential Application in Aerospace Sectors -- 10. Investigation and Analysis the Surface Veracity Aspects for the WireEDM of Al/ZrO₂(P)-MMC -- 11. Material Characterization of Alloys for Aerospace Applications: Effect of laser power on the Co-axially deposited T64 alloy and Cu -- 12. Optimization of Reinforcement Parameters and Turning Conditions for Improving Surface Quality of Hybrid Al-SiC-Red Mud Composite -- 13. Thermal characterization of graphitized carbon nanotube reinforced Ti64 nanocomposites synthesized by field assisted sintering technique for fuselage and wing box applications -- 14. Hybrid Biocomposites: Utilization in Aerospace Engineering -- 15. Moulding of Carbon-Epoxy Composite Prepregs for Applications in Aerospace Industries -- 16. Recent trends in Hybrid Composites for aerospace applications: A review -- 17. Flexural and impact properties of hybrid of fibre reinforced in PLA nanocomposites with for aerospace applications -- 18. Evolution of Aerospace Composite Materials -- 19. Cooling Curve Thermal Analysis of Al-20%Mg2Si-xB4C Hybrid Composites for Aerospace Applications -- 20. Microstructural Characterization, Mechanical Properties and Sliding Wear Behavior of Al-20%Mg2Si-xB4C Hybrid Composites of the Aircraft Body -- 21. Hybrid Composites for Very Large Lightweight Wind Turbine Blades: Structural and Materials Aspects -- 22. Influence of scanning speed on the laser metal deposition of Ti-6Al-4V and Mo for aerospace application -- 23. Carbon nanomaterial-carbon fiber hybrid composite for lightweight structural composites in the aerospace industry: Synthesis, processing, and properties -- 24. Advanced Composites in Aerospace Applications: Opportunities, Challenges and Future Perspective.

Sommario/riassunto

This book presents an authoritative account of the potential of advanced composites such as composites, biocomposites, composites geopolymers, hybrid composites and hybrid biocomposites in aerospace application. It documents how in recent years, composite materials have grown in strength, stature, and significance to become a key material of enhanced scientific interest and resultant research into understanding their behavior for selection and safe use in a wide spectrum of technology-related applications. This collection highlights how their unique combination of superior properties such as low density, high strength, high elastic modulus, high hardness, high temperature capability, and excellent chemical and environmental stability are optimized in technologies within these field.
