

1. Record Nr.	UNINA9911035159603321
Autore	Pathak Himanshu
Titolo	Recent Advances in Composite Materials and Structures, Volume 1 : Design, Processing, Manufacturing and Health Monitoring // edited by Himanshu Pathak, Sunny Zafar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819652815 9789819652808
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (752 pages)
Collana	Springer Proceedings in Materials, , 2662-317X ; ; 72
Altri autori (Persone)	ZafarSunny
Disciplina	620.1
Soggetti	Building materials Composite materials Biomaterials Structural Materials Composites Biomedical Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Effect of Wing Attachment Bolts on the Drooping Phenomenon in CFRP Composite Aircraft Wing -- Review of Nanocarbon Tubes and Nanomaterials Engineering Industry -- Effect of MWCNT on Basalt Fibre-Reinforced Polymer composite at elevated -- temperatures -- Numerical modeling of damage behavior in unidirectional Carbon/Carbon composites -- Seismic performance-based assessment of Concrete Bridge piers reinforced with Fe-based SMA bars -- Effect of interfacial VACNT on the transverse deformation of antisymmetric angle-ply composite laminates -- Enhancing compressive strength of aluminum composite through stir casting technique with TiO2/BN reinforcement -- Study microstructural characteristic and mechanical behavior of bimodal hybrid TiO2np-SiCp/Al6082 composites fabricated by stir-squeeze casting -- Powder metallurgy processing of Al-HEA composite: Microstructure and mechanical characteristics -- Investigation of sandwich plates subjected to low-velocity impact.
Sommario/riassunto	This book includes the select proceedings of the International

Conference on Composites: Design, Processing, Manufacturing and Health Monitoring (CDPMHM 2024). It covers latest research in designing, processing, manufacturing and health monitoring techniques for composite materials and structures. The topics covered in this book are additive manufacturing, design against fatigue crack growth and fracture, composites for bio-medical applications, electrical vehicles, space and aero-space applications and many more. The book is a valuable reference for researchers and professionals interested in composite material and structure allied fields.
