1. Record Nr. UNINA9910760253203321 Autore Tyagi R. K **Titolo** Advances in Engineering Materials [[electronic resource]]: Select Proceedings of FLAME 2022 / / edited by R. K. Tyagi, Pallav Gupta, Prosenjit Das, Rajiv Prakash Singapore:,: Springer Nature Singapore:,: Imprint: Springer.. 2024 Pubbl/distr/stampa **ISBN** 981-9947-58-8 Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (377 pages) Collana Lecture Notes in Mechanical Engineering, , 2195-4364 Altri autori (Persone) GuptaPallav DasProsenjit PrakashRajiv Disciplina 620.11 Soggetti Materials Materials - Analysis Machinery Materials Engineering Materials Characterization Technique Machinery and Machine Elements Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Experimental Investigations on Eco-friendly Lubrication Techniques for Nota di contenuto Improving Machining Performance -- Improvement in Flow Distribution for Effective Thermal Management in Thermoelectric Generator for Waste Heat Recovery -- Microstructure Characterization and Analysis of AA2024/SiC/Carbonized Eggshell Reinforced Hybrid Green Aluminium Matrix Composite -- Passive Thermal Management of a PV Module using Fins of Various Geometries: A Numerical Study -- Experimental Investigation for Mechanical Performance of Plant Fiber Based Polymer Composites -- Al 6063 Hybrid Metal Matrix Reinforced Composites with TiC Nanoparticles and NEEM Leaf Ash Using Stir Casting Method for Bicycle Frame -- Microwave Sintering of Aluminum composite --Analysis of Energy Efficient Copper Mining Processes using Solar

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Sommario/riassunto

Characteristics of Fiber Metal Laminates Reinforced with Jute/glass Fibers -- Human-Computer Interaction: Comparison of Different Contributions Based on Opinion and Survey -- Framework and Challenges for Mobile Satellite System.

This volume comprises the select proceedings of the 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering (FLAME) 2022. It aims to provide a comprehensive and broad-spectrum picture of the state-of-the-art research and development in material science and engineering. Various topics covered include metals and composites, energy systems, advanced materials processing, materials synthesis and processing, nanotechnology, polymers and ceramics, material for semiconductor devices, fabrication technique, corrosion and degradation, corrosion, welding of advanced materials, etc. This volume will prove a valuable resource for researchers and professionals in materials engineering.