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Nota di contenuto	Plasma Functionalized Wettability Gradient Surfaces for Electronic Cooling -- Effect of Porous Plug Shape and Permeability on Convective Heat Transfer Characteristics of Flow through a Mini Channel -- Condition Monitoring of Reciprocating Compressor using ANN -- Novel Supercritical Carbon Dioxide Cycle for a Waste Recovery Application -- Cross-Recurrence Analysis of Pressure Signals in Intermittent Flow Sub-Regimes -- Effect of Linear Varying Diameter on Thermo-hydrodynamics of Two-Phase Closed Thermosyphon -- Investigation of Performance and Smoke Characteristics of Diesel Engine Powered by Various Blends of Biodiesels Extracted from Disposed Edible Oil -- Effect of Inverting Heat Source Direction on the Melting of Phase Change Material under the Influence of Microgravity Environment -- Study of Operating Parameters for a Controllable Water Flash Evaporation -- Numerical Study of Heat Transfer Fluid Position on

Sommario/riassunto

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 state-of-the-art research and development in thermal and fluid engineering. Various topics covered include flow analysis, thermal systems, flow instability, renewable energy, hydel and wind power systems, heat transfer augmentation, biomimetic/ bioinspired engineering, heat pipes, heat pumps, multiphase flow/ heat transfer, energy conversion, thermal hydraulics of nuclear systems, refrigeration, and HVAC systems, computational fluid dynamics, fluid-structure interaction, etc. This volume will prove a valuable resource for those in academia and industry.
