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<i>Paper Title</i>	A Micro-pin-fin heat sinks for electronics cooling System
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<i>Abstract& Keyword</i>	<p>Abstract:- Micro-pin-fin heat sinks consist of cylindrical shape projections that remove heat from compact electronic devices by adding wetted area and changing the flow of coolant. Performance of the heat sink depends entirely upon the trade-offs between surface cooling, substrate conduction, and hydraulic resistance. Findings from the state-of-the-art review covering the domain areas of geometric array measurements, geometric design, variable density, hotspots, embedded cooling, boiling, and prediction are all discussed. It has been found in the studies that the preferred layout for heat transfer does not imply a preferred design, as it can be different from the layout as preferred for hydraulic performance. Temperature distribution can be improved through spatial grading, but the heat map and flow constraint are also required to be checked for. Numerical optimization and machine learning can be used to examine candidate designs, but their applicability remains entirely dependent on validation from previously established research and experimental proof. The review attempted to distinguish measured results from numerical predictions and it also explains why studies must use comparable temperatures, flow conditions and pressure measurements.</p> <p>Keywords: micro-pin-fin heat sink; electronics cooling; variable density; hotspot cooling; flow boiling; thermal hydraulic performance.</p>
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