System-Level Analysis of Microchannel Cooling Systems

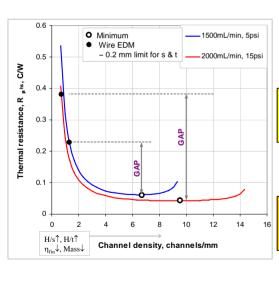
Faculty: S. V. Garimella

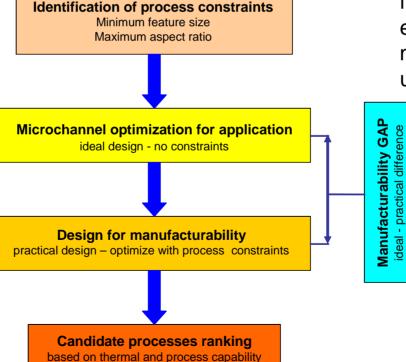
Post-Doc: M. Iyengar

OBJECTIVE

Develop a design tool for rapid system-level design and analysis which allows for optimization of microchannel heat sinks for available commercial mini-pump flow space & volume specifications

APPROACH





Based on cost effectiveness

IMPACT

Successful integration of microchannels into commercially viable microsystems will likely be determined by system-level factors such as energy efficiency, weight, volume, manufacturability, and ultimately, cost.

FOR MORE INFORMATION:

M. Iyengar and S. V. Garimella, "Design and Optimization of Microchannel Cooling Systems," Procs. ITHERM06, San Diego, California, May 30 - June 2, 2006.

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