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Advanced engineering faces changes from project to project, and from company to company, yet some constants should continue into the foreseeable future. One of these is the emphasis on thermal design.

Although just a few years ago thermal analysis of electronic equipment was

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an afterthought, it is becoming one of the primary aspects of many packaging jobs. It seems that the days of just adding a bigger fan to reduce the overheating problem are almost over. Replacing that thought is the up-front commitment to CFD (Computational Fluid Dynamics)

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software code, FEA (Finite Element Analysis) software, and the realization that the problem will only get worse.

As the electronic circuit size is reduced, speed is increased. As the power of these systems increases and the volume allowed diminishes, heat flux or density (heat per unit area,  $W/m$

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2 or Btu/h ft<sup>2</sup>) has spiraled. Much of the improvement in the reliability and packaging density of electronic circuits can be traced to advances in thermal design. While air cooling is still used extensively, advanced heat transfer techniques using exotic synthetic liquids are becoming more prominent,

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allowing still smaller systems to be manufactured. The application of advanced thermal management techniques requires a background in fluid dynamics.



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Thermal System Design and

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