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phase change. Combined modes of heat transfer for electronic equipment.

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Heat management is a major part of the electronic design. To ensure efficiency and accuracy of components and system hot spots, excess heat must be

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transported away from them. Engineers can use intelligent thermal design to reduce heat-related errors. There are three strict driving forces making demands on materials for thermal management.

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iii. basic design concepts a. fundamental principles of heat removal 5 b. approaches to the thermal design of electronic equipment 7 c. methods of thermally rating electronic equipment and parts 7 iv. introduction to heat transfer a. general 9 b. conduction 9 c. convection 10 d. evaporation and condensation 11

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Rationale. Industry moves towards ever increasing functionality, performance, miniaturization and less cost, resulting in higher heat densities and corresponding higher temperatures. Unfortunately, these have a negative impact on the

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performance, reliability and lifetime of electronic products, making thermal design more challenging than ever. Optimization of thermal design is relevant for many electronic applications, such as consumer electronics, semiconductors, power electronics, LED ...

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Thermal design and cooling of electronics - High Tech ...

Detailed Design Phase Thermal Tools:
Tools commonly used in the electronics industry for detailed thermal design are Computational Fluid Dynamics (CFD) and Finite Element Analysis (FEA) solvers. Typically, these types of analyses require longer setup/solve times and

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