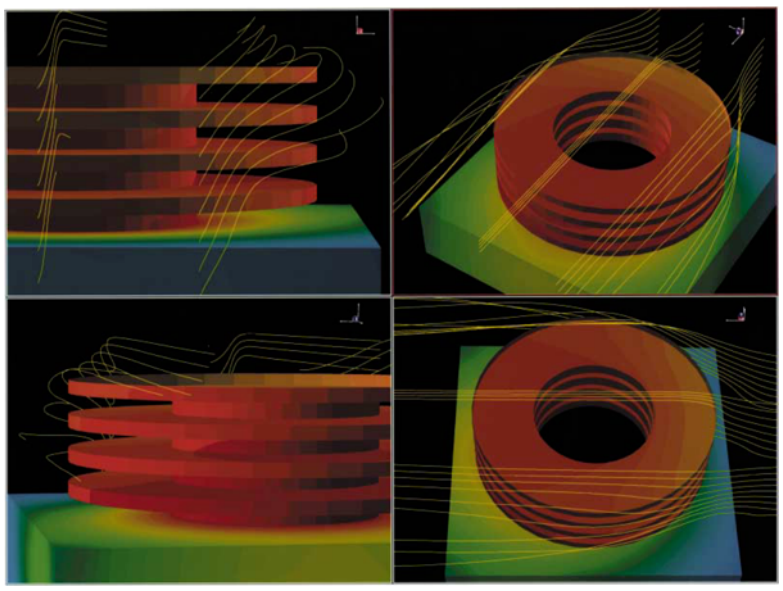
7. Electronics Module Cooling

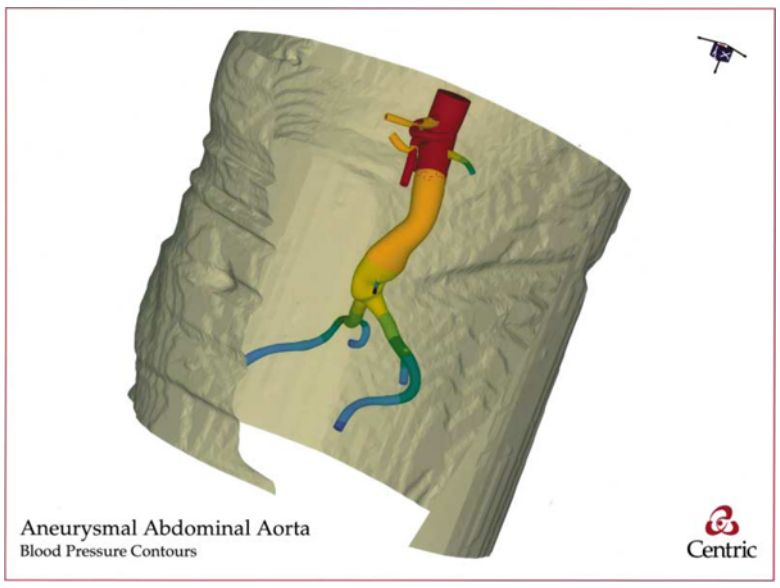
Rifai, S.[1)]
1) *Centric Engineering Systems, Inc., 624 East Evelyn Avenue, Sunnyvale, CA 94086, U.S.A.*



Visualization of the cooling process for an electronics module. Centric's Spectrum(TM) is used for multiphysics simulation and visualization of this thermal management application. The color contours represent the temperature field within a Motorola MCA2800-ALS bipolar gate array. Streamlines of the cooling flow around the module are also shown.

8. Vascular Blood Flow Simulation

Taylor, C.[1)]
1) *Divison of Vascular Surgery, Stanford University, Stanford, CA 94305, U.S.A.*



Visualization of a patient's aneurysmal abdominal aorta. Centric's Spectrum(TM) is used to model and visualize pulsatile blood flow within arteries using computational fluid dynamics. The outside surface is the patient's skin, and a clipping plane exposes the aorta. The color contours depict the blood pressure distribution at an instant in time during the pulse cycle.