

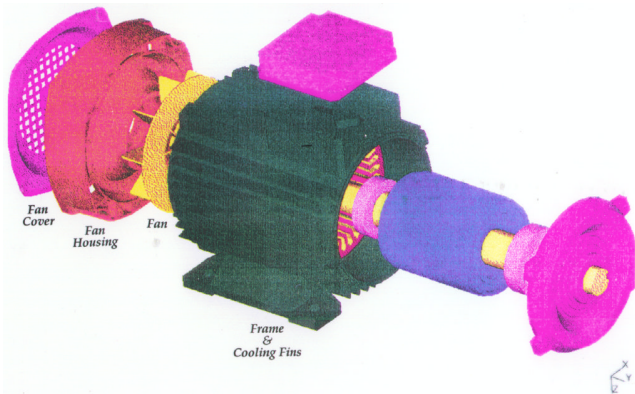
## PASSAGE: FLOW and SYSFLOW Software

Simultaneous use of **PASSAGE®: FLOW** and **SYSFLOW** software provides a practical tool for solving complex flow and heat transfer problems. This capability allows modeling of complex systems followed by detailed analysis of sub-systems and components. Design process start with developing the overall concept, detailing its components and ensuring that the overall performance and efficiency targets are met. Using **PASSAGE: SYSFLOW** one can develop an initial concept, perform sensitivity analysis to determine its critical components and set directions and further development. One can then proceed with detailed design using **PASSAGE: FLOW** at the same time refining **SYSFLOW** models and testing prototypes.

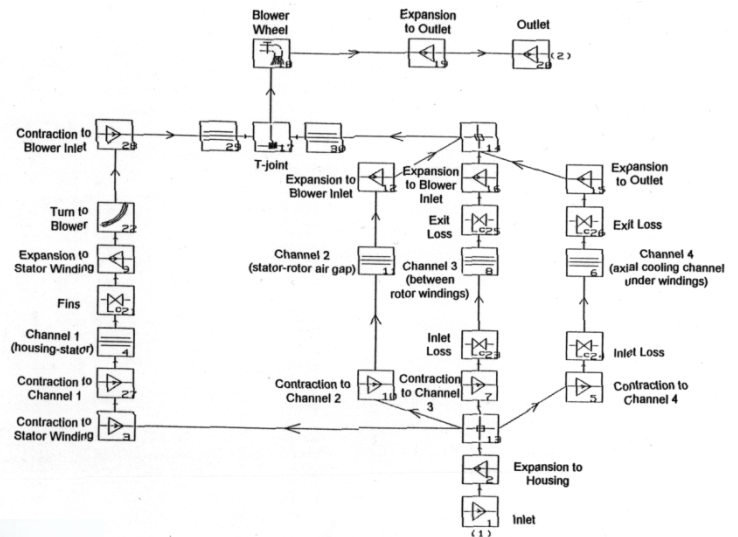
### Example: Thermal Design of an Electric Motor

This case involves flow and thermal analysis of an electric motor as a system and its critical components.

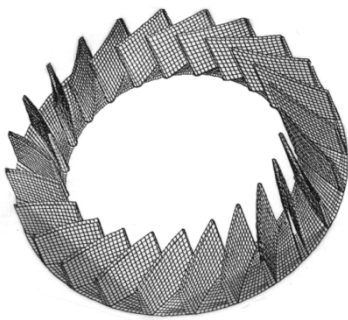
#### Electric Motor



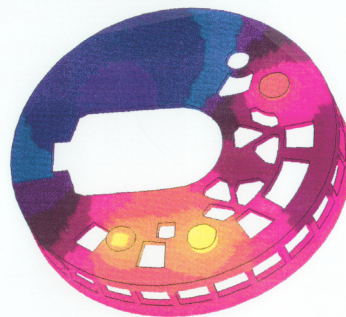
#### SYSFLOW Model



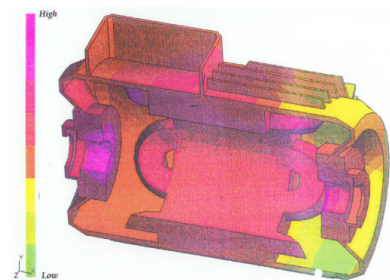
#### FLOW Models



Fan



Cover

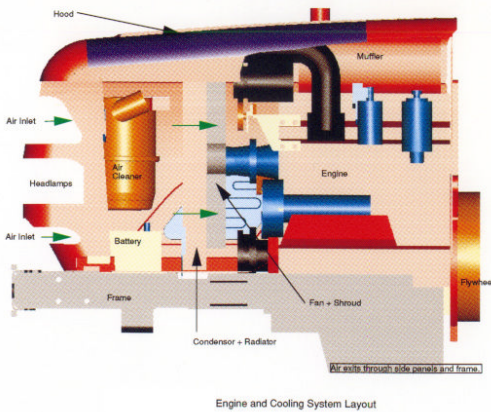


Casing

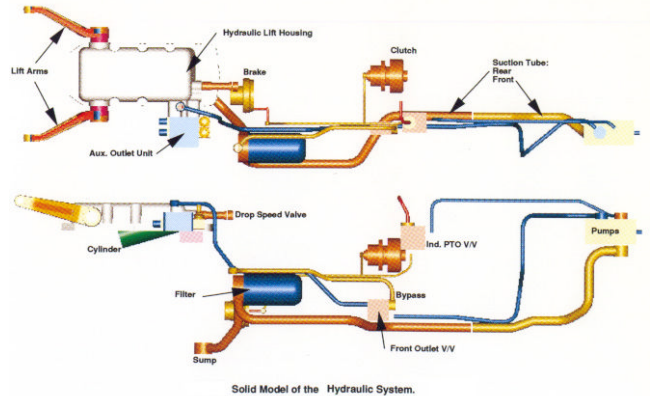
# Example: Hydraulic and Thermal Analysis of a Vehicle

This case involves flow and thermal analysis of a vehicle as a system and its critical components.

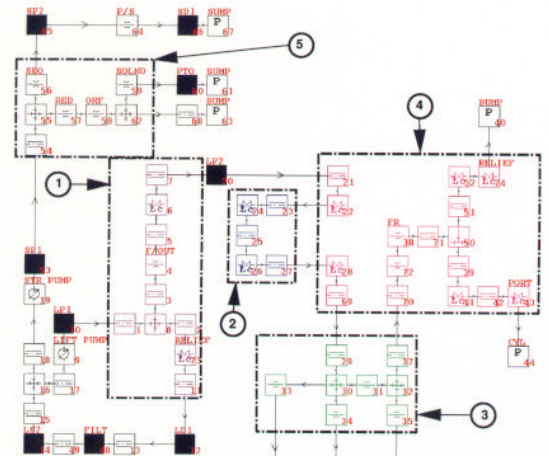
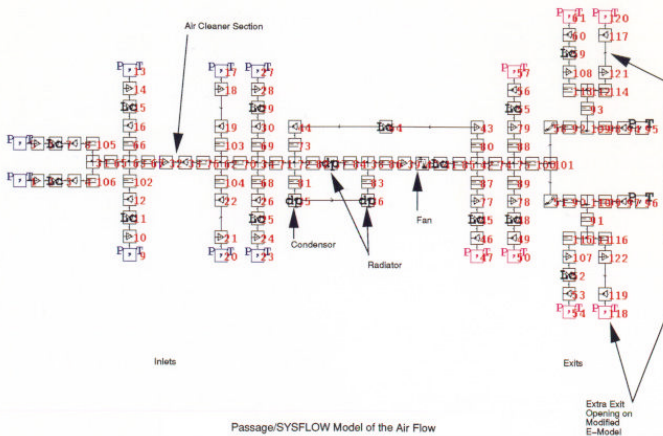
## Underhood Cooling



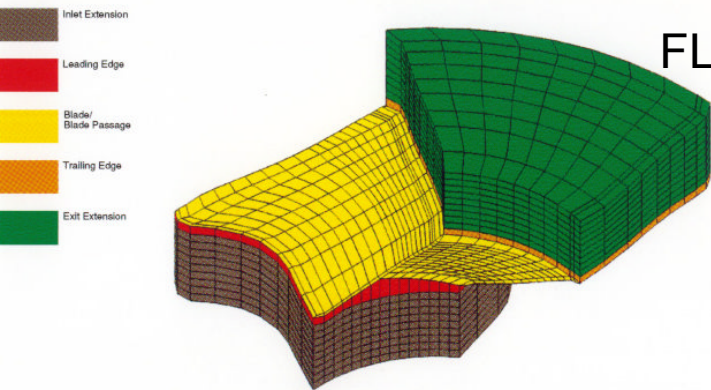
## Hydraulic System



## SYSFLOW Models



## FLOW Models



Fan

