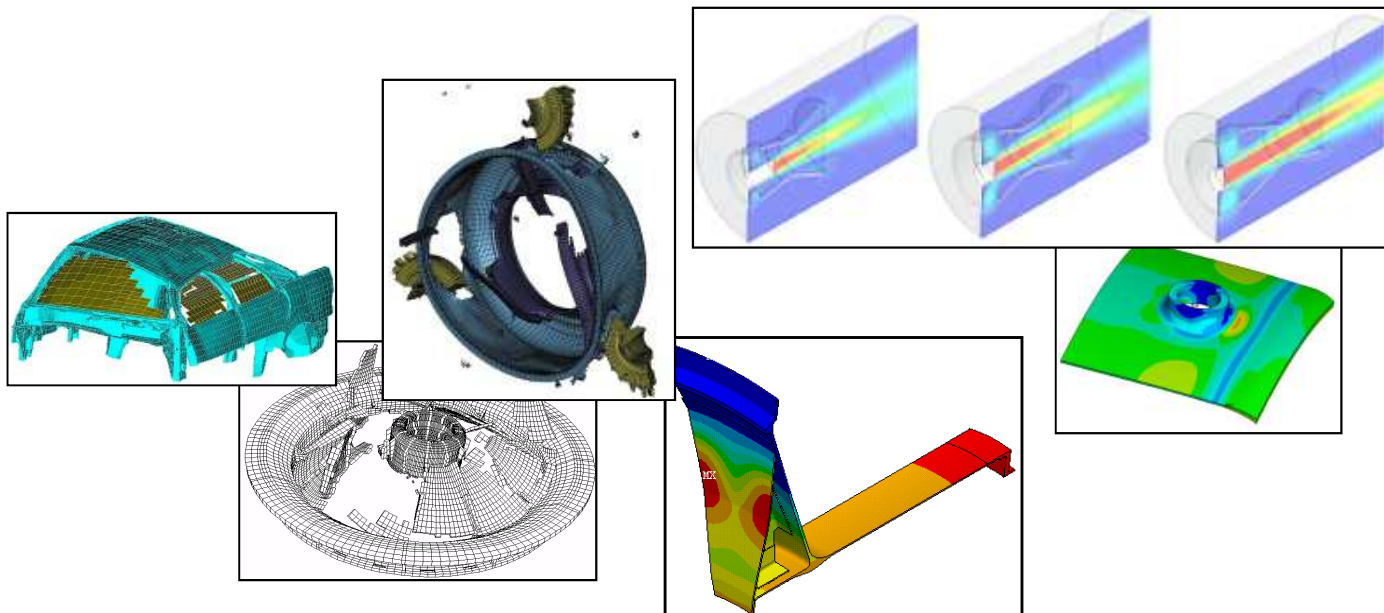


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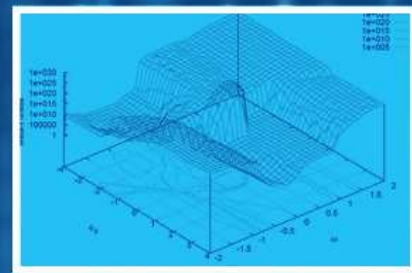
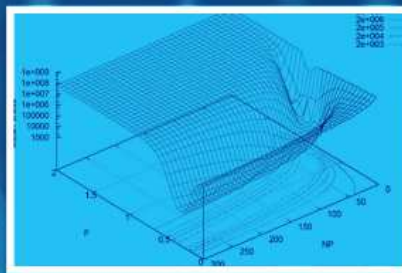
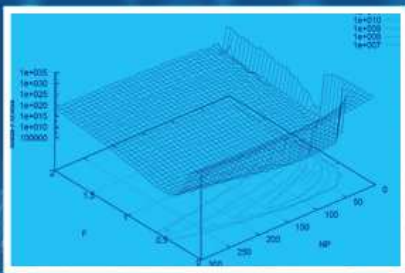
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Unique Strength of SmartDO

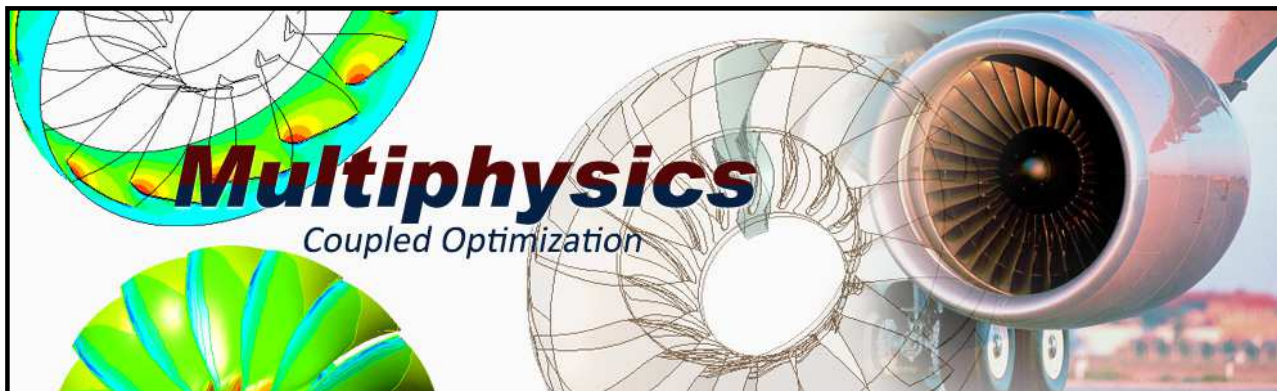
- Fire-and-Forget Optimizer Technology. Easy to use and learn SmartLink GUI. No need to work on parametric sensitivity study.
- Tcl/Tk based programmable platform. Innovative SmartPET and PET utilities allows the users to embed Tcl/Tk scripts into any text file by means of preprocessing the text file.



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- Sophisticate mathematics and smart algorithms. Applicable to different disciplines and applications
- Strongly CAE-based and industrial-oriented. Comes with our superior consulting and customization services.



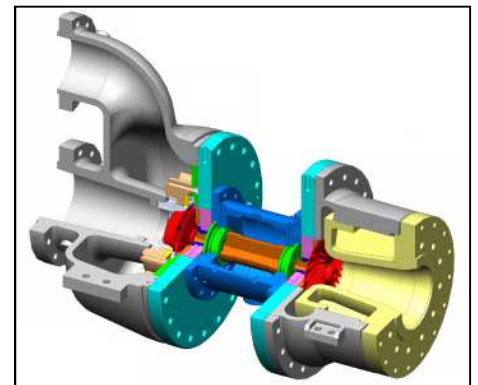
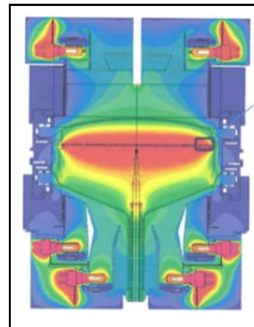
Optimizer

- All optimizers using Direct Global Search, with Absolute Descent properties.
- Gradient-Based Direct Global Optimization
 - Tunneling and Hill Climbing
 - Local Optimizer with DV Normalized [1]
 - Conjugate Feasible Direction Method (CFDM)[1], Recursive Feasible Direction Method (RFDM)[1], Recursive Conjugate Feasible Direction Method (RCFDM)[1]
 - Smart Dynamic Search(SMDS)[1]
 - Applicable for differentiable problem. Also for both smooth problems or with noise [1,2]
- The Robust Genetic Algorithms (RGA)
 - Adaptive Penalty Function[1], Automatic Schema Representation[1], Absolute Descent[1]
 - Automatic Population and Generation Number Calculation[1]
 - Adaptive and Automatic Cross-Over Probability Calculation)[1]
 - Concurrent Sizing, Shaping and Topology Optimization
 - Applicable for Binary(0/1) and Combinatory Optimization
 - Applicable for differentiable and non-differentiable problems
- No limitation on number of Design Variables and/or Constraints.
- Accept infeasible design for the initial design and starting points. SmartDO will resolve the infeasibility before optimization.

NOTE : 1. Proprietary algorithms. 2. Dealing with functions with local and minor to medium noise.

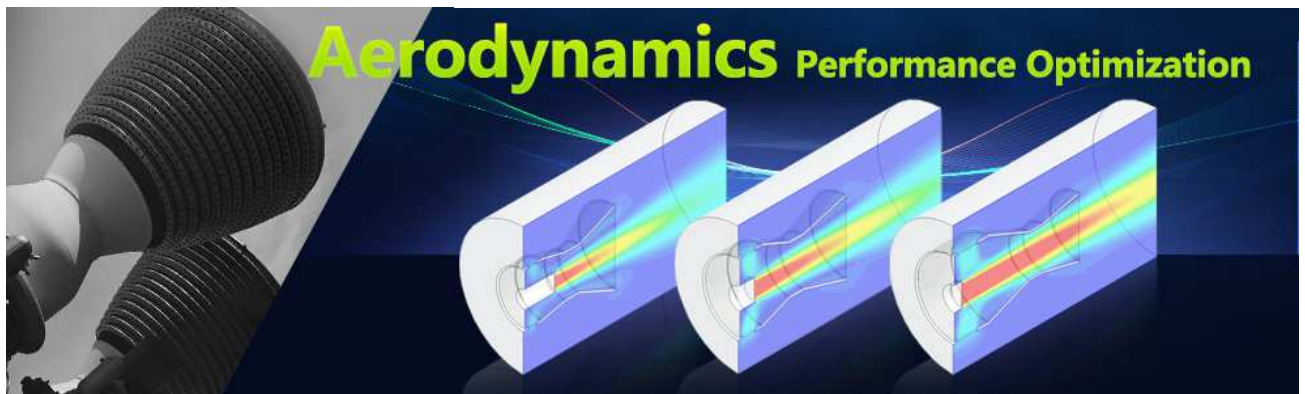
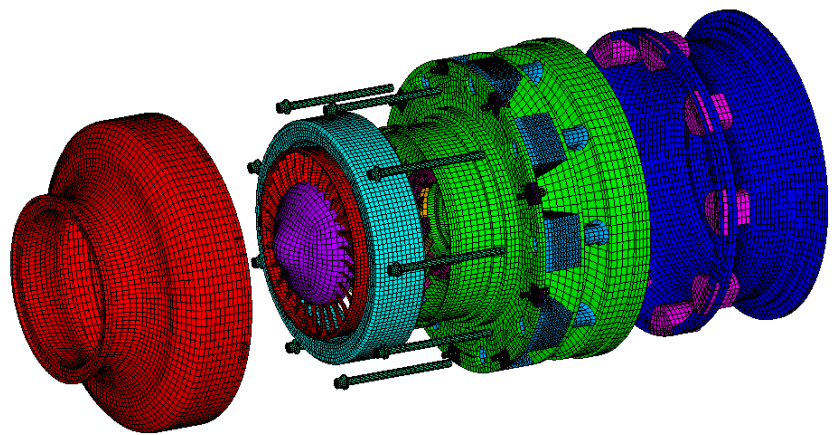
Application

- Semi Conductor : packaging, material fitting/optimization
- System Integration & Automation
- Light Weight Structure & Topology
- Connector, mechanical and EMI
- Fan and turbine blades
- Laminate Composite
- Nozzles & Ejectors
- Car Wheel Rim
- Steel Construction
- Heating & Cooling
- Machine Tools
- Motor



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