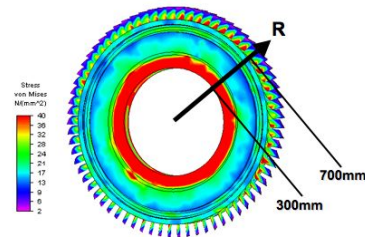


The Multistat Visual Optimizer Plugin for Engineous iSIGHT-FD Multi Objective Optimization for the toughest design challenges

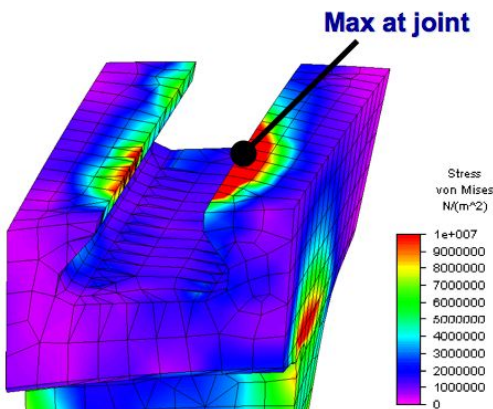
The Multistat Visual Optimizer Plugin utilizes a new multi-objective optimization technology, Concurrent Gradients Analysis, which provides dramatic advantages over existing optimization algorithms:

- Speed – significantly reduced number of function evaluations, up to 100 times fewer
- Scalability - large number of design variables, hundreds to thousands of variables
- Accuracy - specified tolerance of solution accuracy from the Pareto frontier

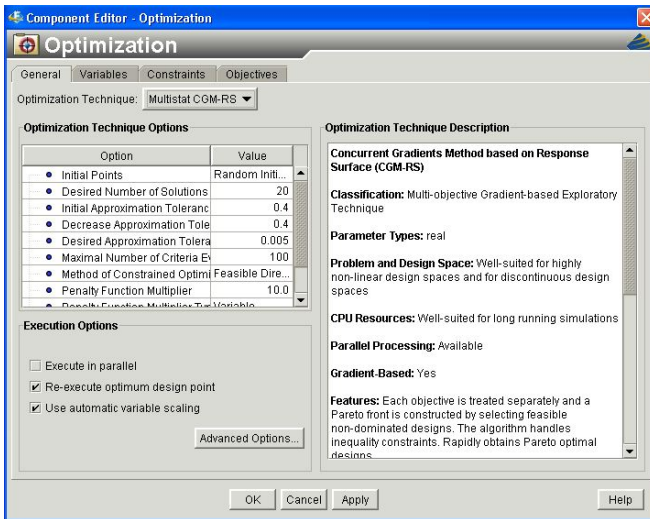


Optimized ω and p parameters

Integrated with iSIGHT The plugin is available for iSIGHT FD version 2.x, integrating within the Design Driver component. The Multistat Visual Optimizer Plugin provides two innovative multi-objective algorithms, both of which utilize a new adaptive, sub-region response surface method, to allow highly dimensioned, multi-objective problems to be solved in a fraction of the time required by other methods. **Dimensionally Independent Response Surface Method**, or **DIRSM**, works with dozens, hundreds, or even thousands of design variables, with no increase in the number of evaluations necessary to generate the surrogate models.



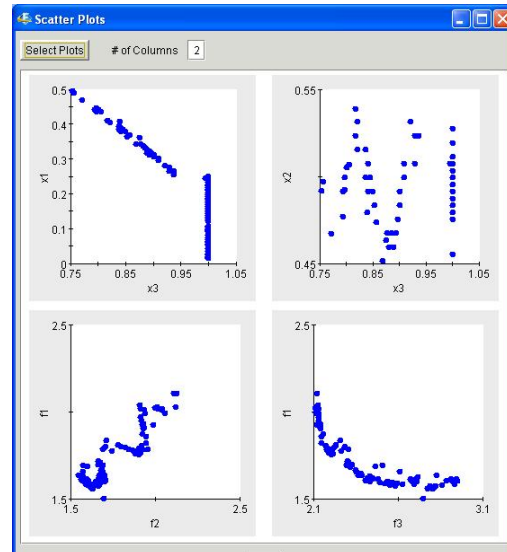
The first multi-objective method, **Concurrent Gradients Method**, or **CGM-RS**, explores the multi-criteria design space from many starting points, concurrently and in parallel, automatically skipping over local minima towards more globally optimal Pareto frontiers in as few as 5 evaluations of your simulation program per Pareto optimal solution.



The second method, **Pareto Navigator Method**, or **PNM-RS**, is an interactive multi-objective method which starts from a single Pareto optimal solution and will directly move along the Pareto frontier in both directions, producing additional Pareto optimal solutions within a specified accuracy in 2 to 5 evaluations per Pareto optimal solution.

The Multistat Visual Optimizer Plugin for iSIGHT-FD is truly of strategic value to any organization, allowing engineers to produce more trade-off designs to choose from when you have many competing design objectives.

In today's competitive environment, the difference between winning and losing in the market can be that one product design you just didn't have time to find. With Multistat Visual Optimizer for iSIGHT-FD, you'll have many more Pareto optimal trade-off designs to choose from within your design cycle time, thereby creating more innovative products.



Multistat Visual Optimizer, DIRSM, and iSIGHT-FD are trademarks of their respective companies.

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