

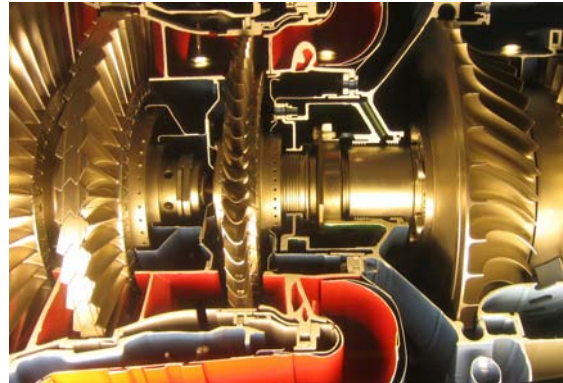
# Multistat Visual Optimizer™



*Breaking the Optimization Barriers*

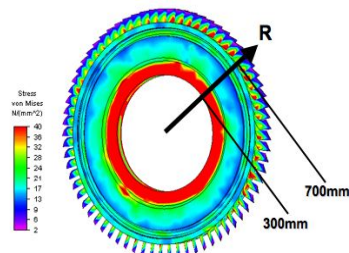
*The design optimization tool which delivers lower development cost and faster time to market, while achieving better product performance*

Multistat Visual Optimizer will allow you to realize the benefits of Design Optimization and **create higher performance, more efficient products, decrease time-to-market, and significantly reduce production costs.**



Multistat Visual Optimizer uses the company's innovative Concurrent Gradient Analysis technology to provide the benefits of optimization in an easier-to-use graphics oriented package that delivers benchmark results orders of magnitude faster than existing solutions.

Multistat Visual Optimizer can optimize any type of complex multi-discipline data where it is crucial to find the best solution from among thousands of available alternatives. **Shrink your design cycle time, reduce material costs, create products that are higher performance, more energy efficient, and more reliable.**



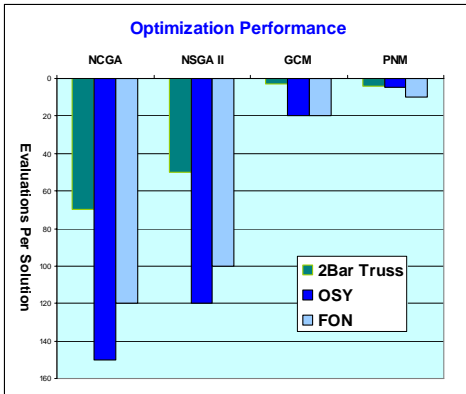
Optimized  $\omega$  and  $p$  parameters

In addition to finding more optimal alternatives in less time, Multistat Visual Optimizer also puts interactive tools in the designer's hands, bringing true understanding of the relationships between the many competing objectives in the product design process, and transforms the challenging problem into an easy to manipulate graphical solution – truly breaking the barriers to optimization.

Leverage your existing investment in design and analysis software to create products that are designed to be optimal. Multistat Visual Optimizer is a complete optimization package. There is no need to purchase optional packages in order to do integration or different levels of optimization. Multistat Visual Optimizer runs on Windows XP® and Windows Vista® operating systems and contains a variety of optimization techniques, including Multistat's advanced patent pending algorithms as well as a selection of commonly available algorithms.

Multistat Visual Optimizer has four key product advances that enable you to dramatically increase your use of optimization:

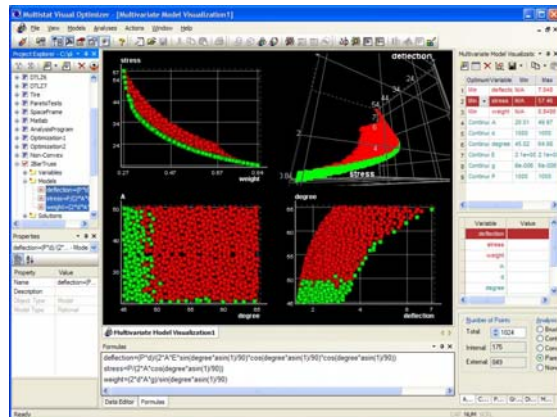
- Multistat Visual Optimizer utilizes a new multi-objective optimization technology, Concurrent Gradients Analysis, which provides orders of magnitude advantages over existing optimization algorithms:



- \* Speed – Multistat’s CGM and PNM require significantly fewer of function evaluations, up to **100 times fewer evaluations** – graph at left shows results with some common benchmarks
- \* Scalability – works efficiently with large number of design variables, up to **hundreds or even thousands of variables**
- \* Accuracy – provide solutions within a specified tolerance from the mathematically optimal solution.

- Multistat Visual Optimizer has a variety of graphic display and manipulation menus that provide more advanced ways of understanding and selecting the optimization results. It is possible to view the relationships between multiple sets of design variables and objectives, and even to improve the result for one objective and instantly see the impact on other variables - all with a few clicks of the mouse!

- The program was designed to run in a Microsoft Windows environment using dockable windows and simple point and click interfaces for all aspects of the optimization. Unlike competitive tools that were designed in a text based or Unix environment, the optimization interface really is user friendly and can be picked up with a minimum of training.



- Multistat Visual Optimizer has been designed to be easily integrated with any type of analysis package. Integrations with popular analysis programs are built into the product, and Visual Optimizer is compatible with most commercial FEA and design optimization environments.

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