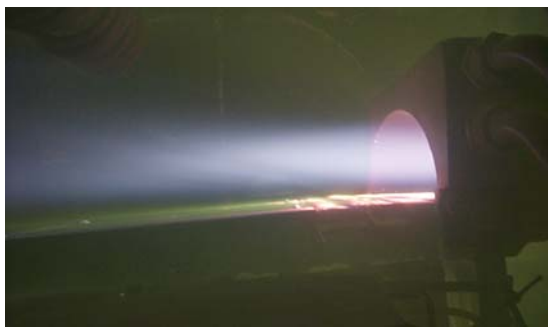
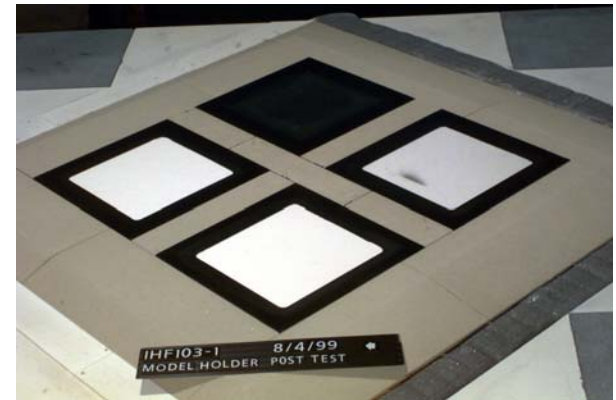
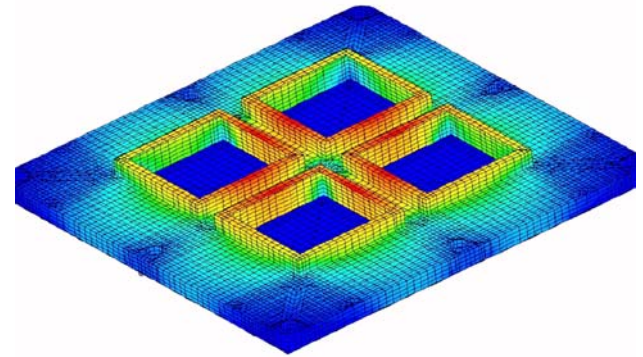


## Aerospace Case Study (Boeing - NASA X-34 Reusable Space Vehicle)



Boeing ([www.boeing.com](http://www.boeing.com)) used NEi Nastran to design and analyze this high temperature super alloy assembly (lower right). The assembly was designed to contain flight experiments mounted on the underside of NASA's X-34 Reusable Space Vehicle (upper left) which is subjected to aerothermal heating and mechanical vibration loading on vehicle re-entry. Temperatures accessed directly from the heat transfer solution were used to perform stress analysis using the same statics and dynamics finite element model (top right). Several critical design changes were made as a result of this coupled analytical approach, which ultimately resulted in the successful arcjet test at NASA Ames Research Center (lower left).



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