

Cranfield Aerospace (CAe) has over 40 years experience in experimental modal analysis.

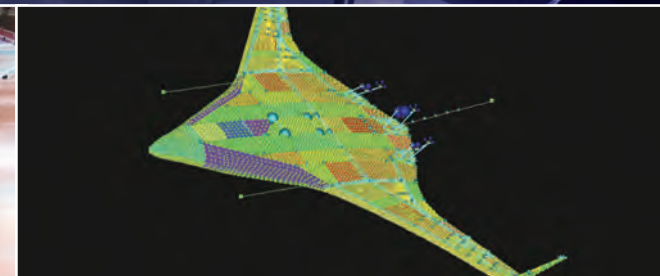
Modal analysis is increasingly becoming a pre-requisite to many environmental test programmes. Modal analysis categorises the dynamic response of structures in terms of resonance frequencies, damping and mode shapes.

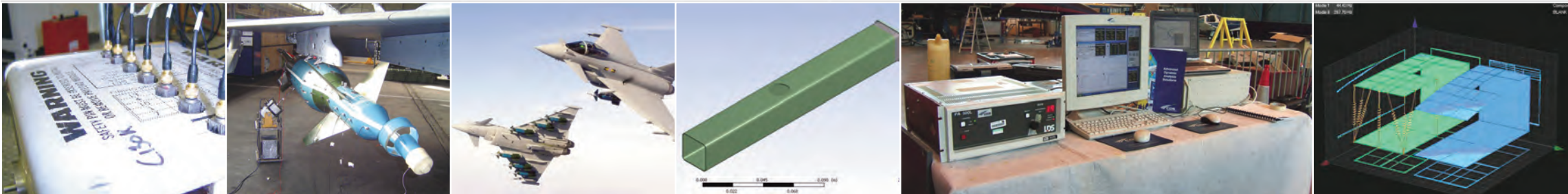
CAe are a leading practitioner in this field and provide an essential service to streamline analysis and assessment of any system:

- Reducing risk associated with structural integration
- Reduced annual cost of ownership
- Small scale single items to large scale munition-platform integration
- Whole aircraft modal surveys
- Initial survey and assessment of the system
- Comprehensive data gathering
- Data analysis utilising Spectral Dynamic's STAR7 modal suite
- Characterisation and animation of all modal parameters



The UK's Leading Modal Analysis Practitioner





CAE's experience in experimental modal analysis, structural modification and finite element modelling provides a cost effective solution

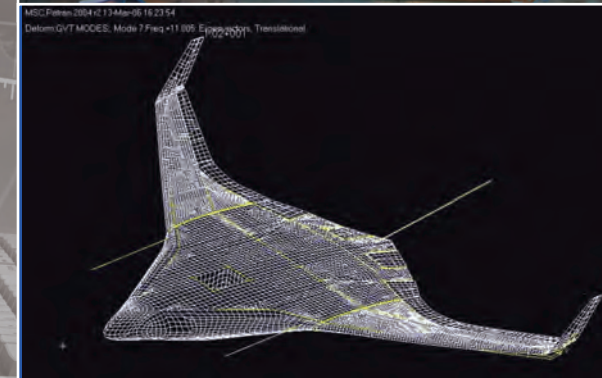
Structural failures due to dynamic excitation are expensive and can be easily prevented using our modal suite. Software modifications can identify potential failure modes before committing to expensive hardware upgrades.

To complement experimental modal analysis, CAE also carries out finite element modelling and analytical structural modification analysis.

CAE will generate and validate complex finite element models to predict the structural response of your system in terms of stress, strain and deformation.

Finite element modelling independently verified using our Modal suite provides you with a high degree of confidence.

CAE's modal and finite element specialists can ensure that your latest developments are translated into safe and reliable systems for use in the most demanding environments.



For Modal Analysis and F.E. Solutions

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