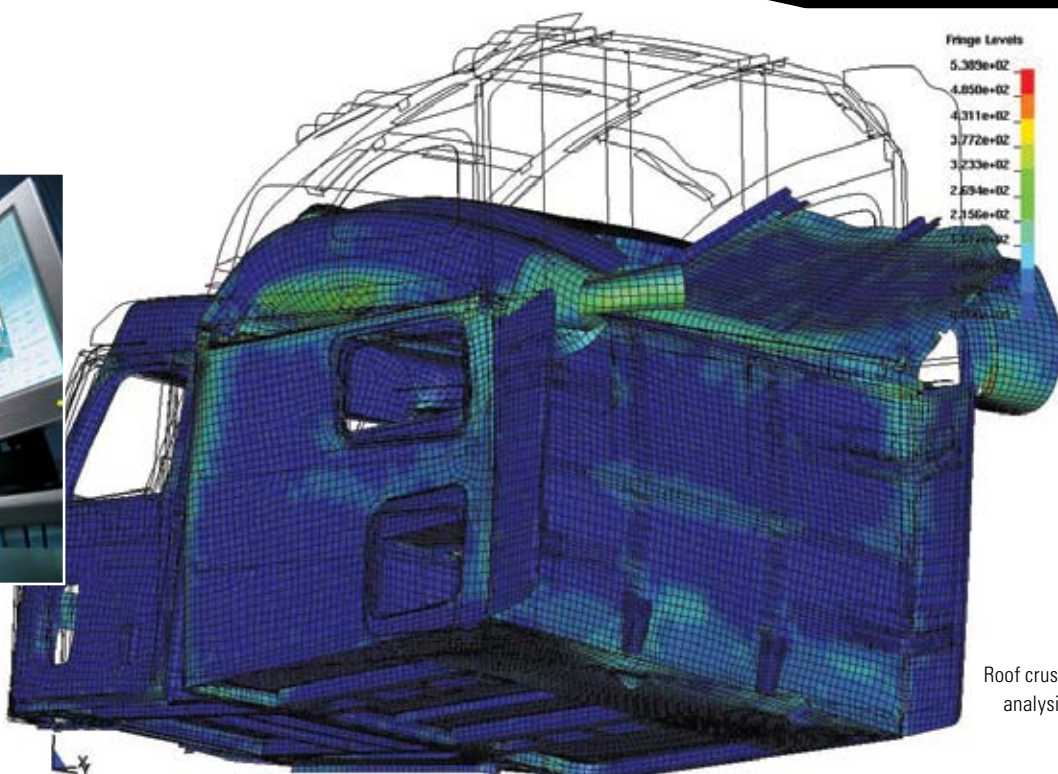


Vehicle crashworthiness analysis



Roof crush analysis

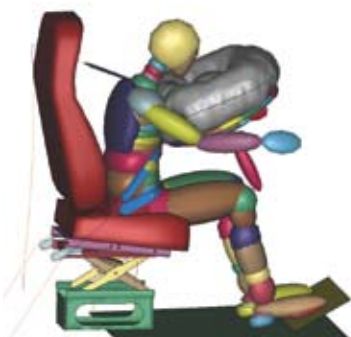
CAPE offers the services of engineering and technical personnel, including an applied mechanics engineering staff that provides modeling and analysis support, from vehicle crash analysis to component stress analysis. Applied mechanics analysis improves test efficiency and allows exploration of conditions beyond physical testing.

Once a model is created, multiple analyses can be conducted at a low incremental cost. Design revisions or material substitutions can be

incorporated into the model and then analyzed under similar conditions. This not only allows for direct comparison of analysis results, but it also enables engineers to analyze how a change affects other areas of interest.

CAPE engineers have experience and specialized equipment to help customers define material properties of fabrics, foams, plastics, composites and metals throughout the linear-elastic and non-linear domains. Materials can be thoroughly tested

at CAPE, enabling analysis engineers to define a wide range of material properties in numerical simulation models.



Occupant model



Instron tensile test machine