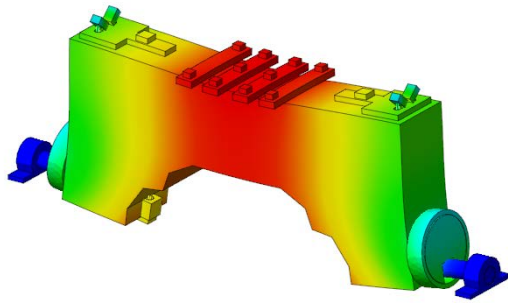


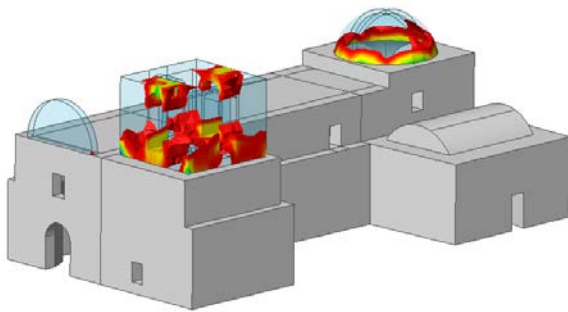
ADVANCED FINITE ELEMENT MODELING

Atkinson-Noland & Associates has advanced finite element modeling capabilities to investigate and solve unique and challenging structural problems. Traditional analysis tools are not always suitable for highly complex problems and often result in a non-accurate prediction of the structural behavior. Using sophisticated computer models, we can provide accurate structural analysis studies and suitable repair, strengthening, and preservation solutions. Our services include the following:

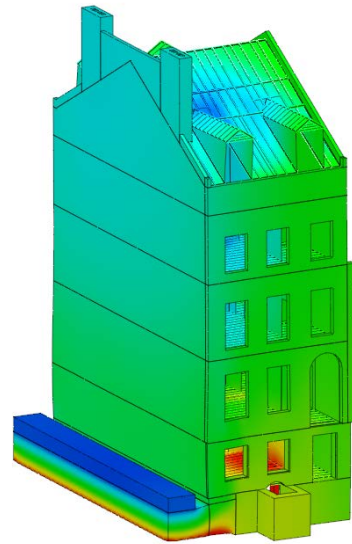
- Complex geometry/loads modeling.
- Seismic vulnerability study.
- Cracking and failure analysis of masonry structures.
- Load rating and strengthening of concrete and stone arch bridges.



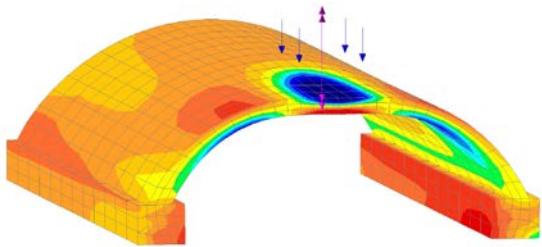
3D MODELING OF LIBERTY BELL REPLICA
SUPPORT STRUCTURE



SEISMIC VULNERABILITY STUDY OF ADOBE AND
MASONRY STRUCTURES



CRACKING ANALYSIS OF HISTORIC
MASONRY BUILDINGS



LOAD RATING OF CONCRETE AND MASONRY ARCH BRIDGES

