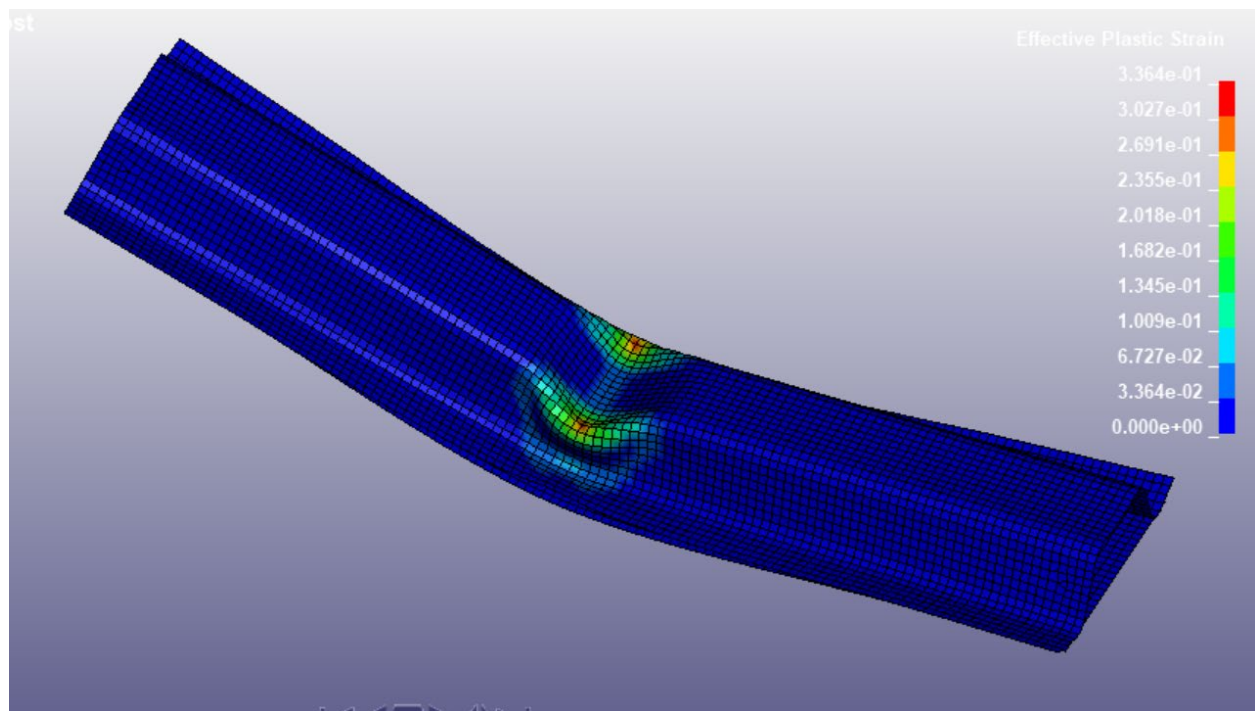


LS DYNA

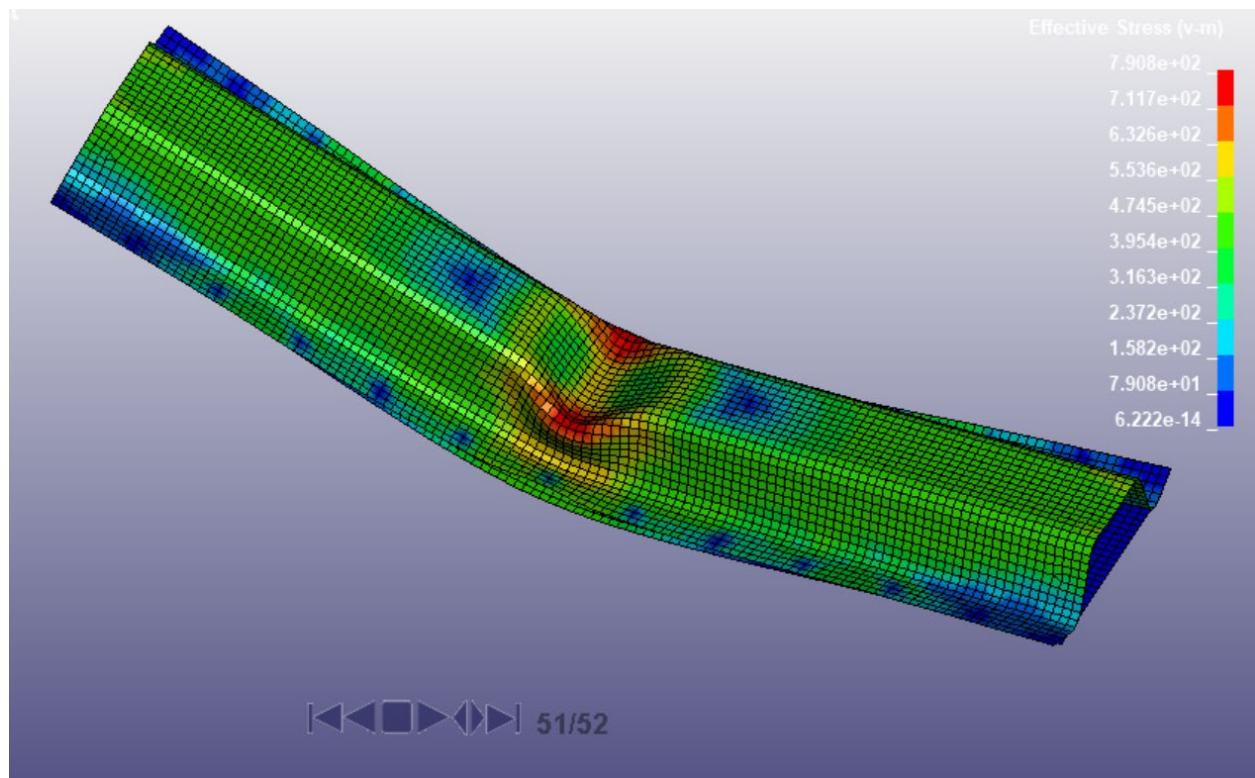
3 Point Bending Flexural Test of a Column Beam

Ashwini Nikumbh

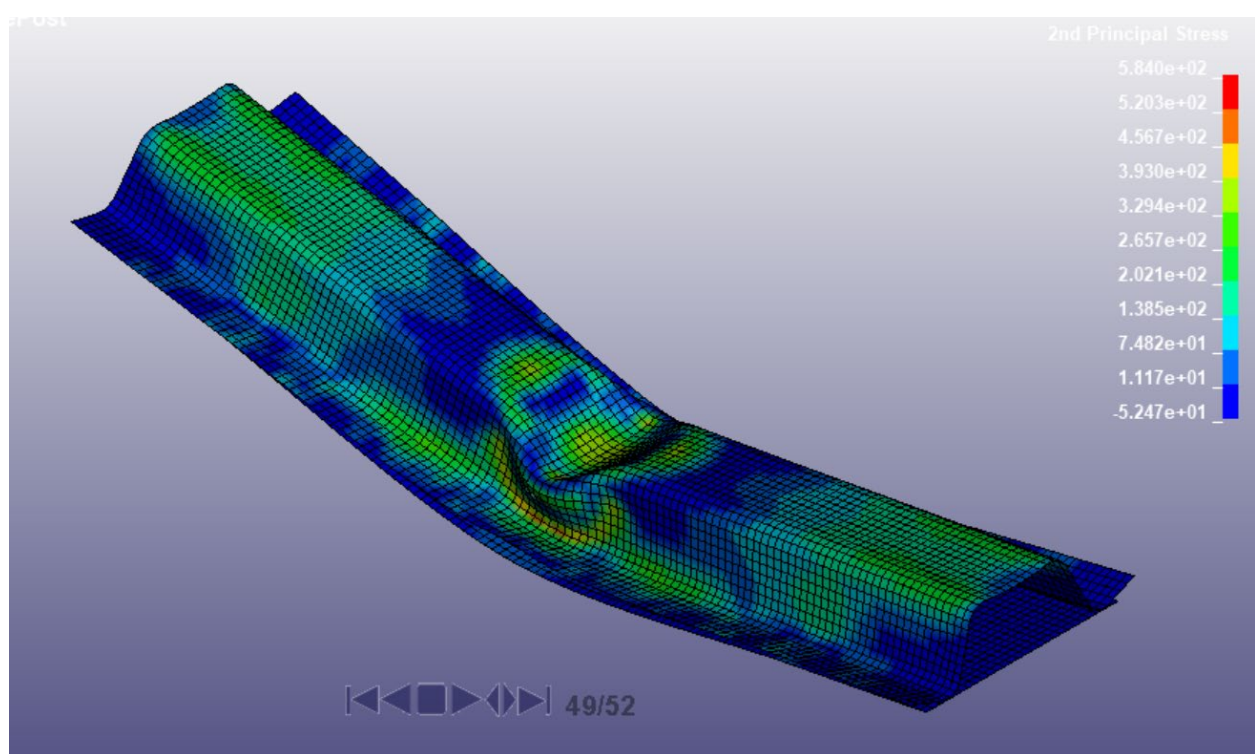
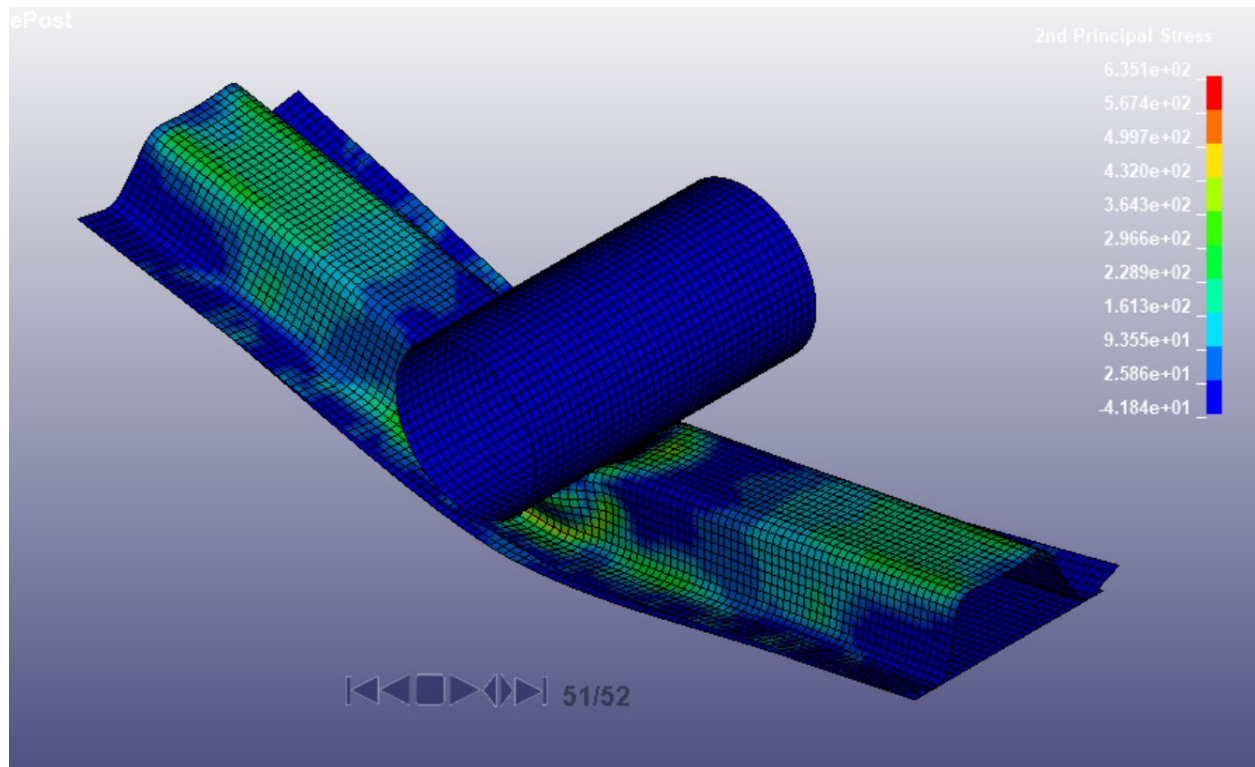
1. Effective Plastic Strain



2. Effective Stress=790.8 MPa

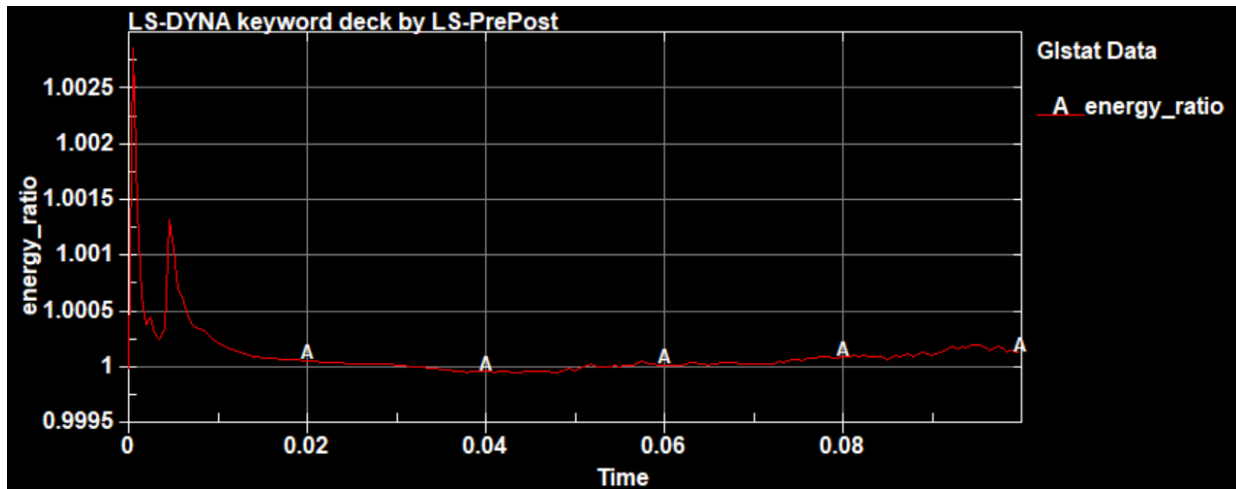


3. Principle Stress

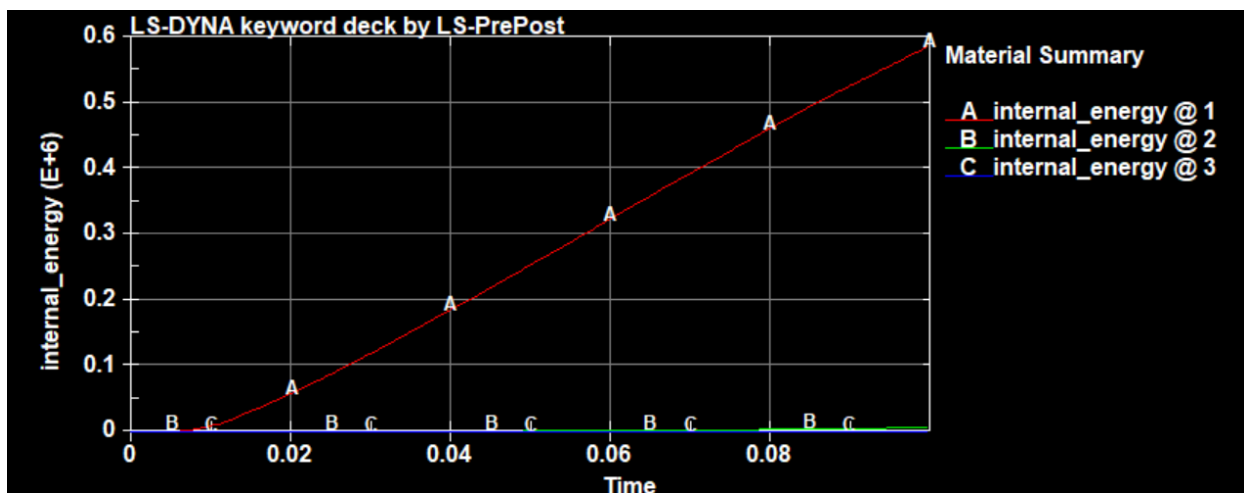


4. Energy Plot

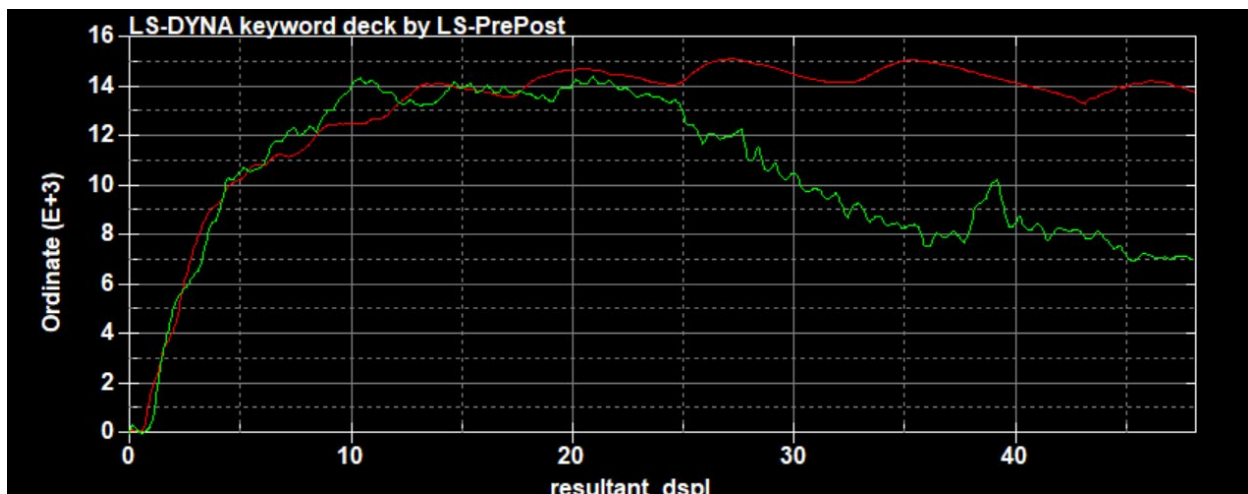
a. Total Energy Plot



b. Internal Energy Plot

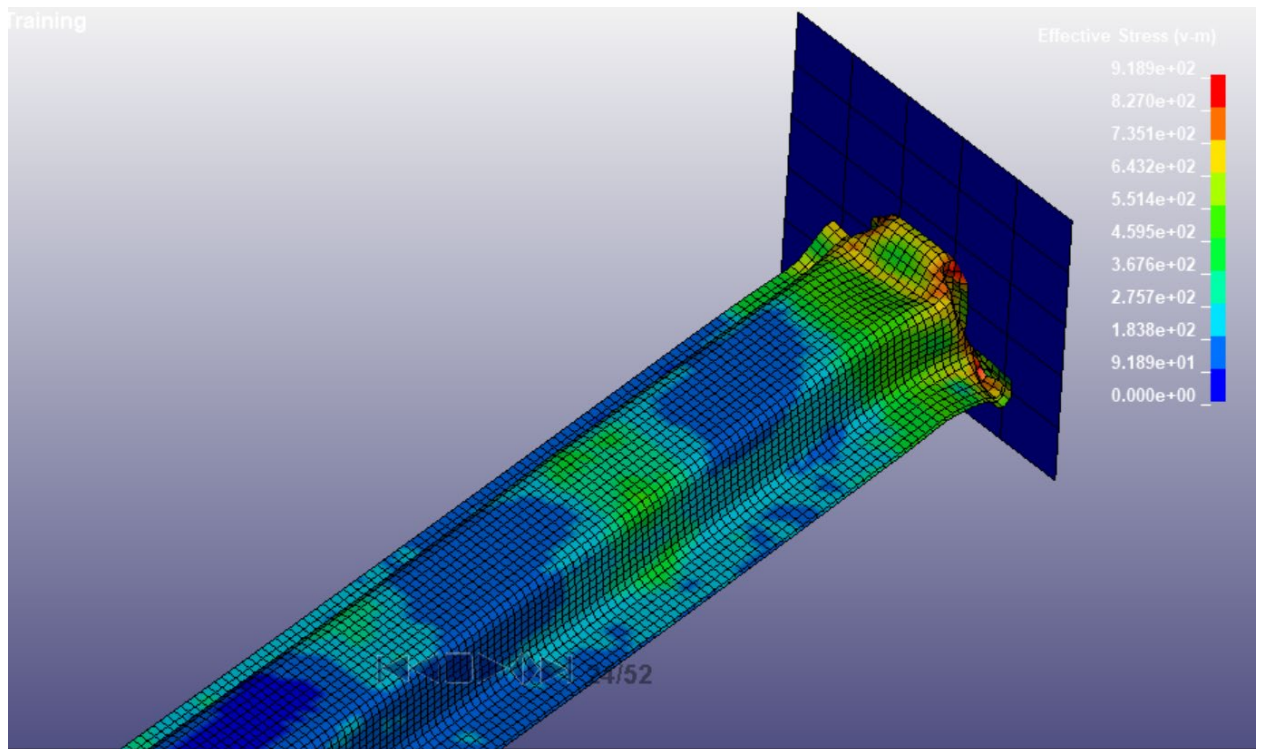


5. Load v/s Displacement Plot

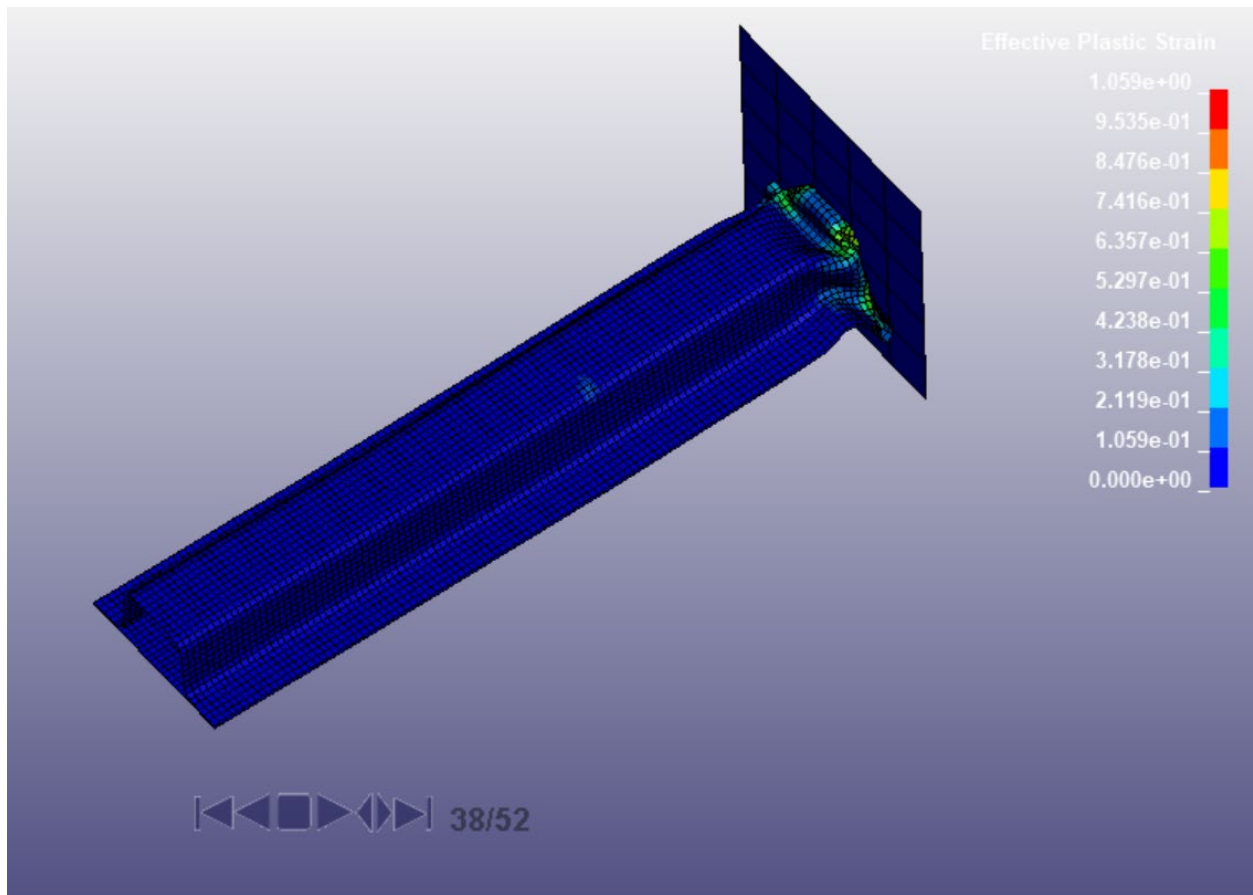


Wall Crushing into the beam section:

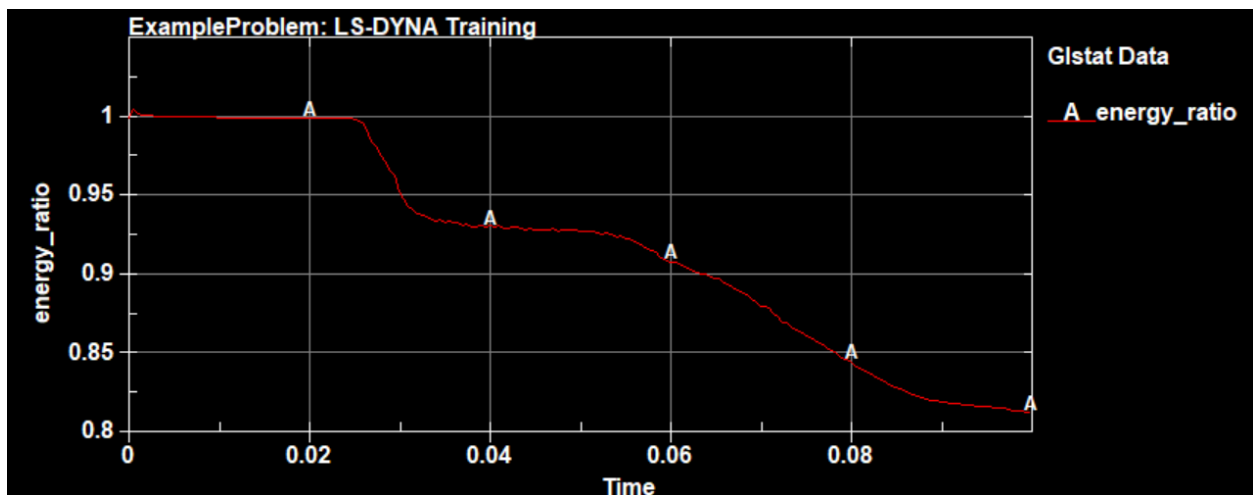
1. Effective Stress



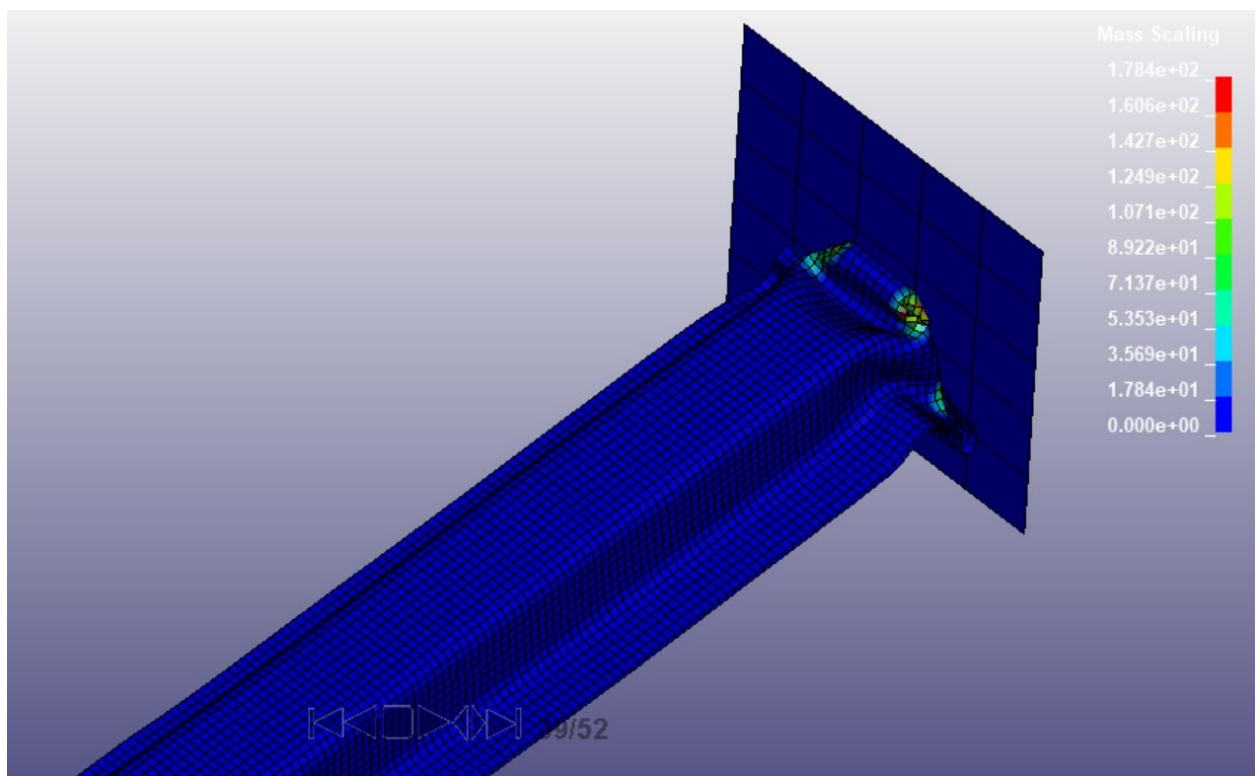
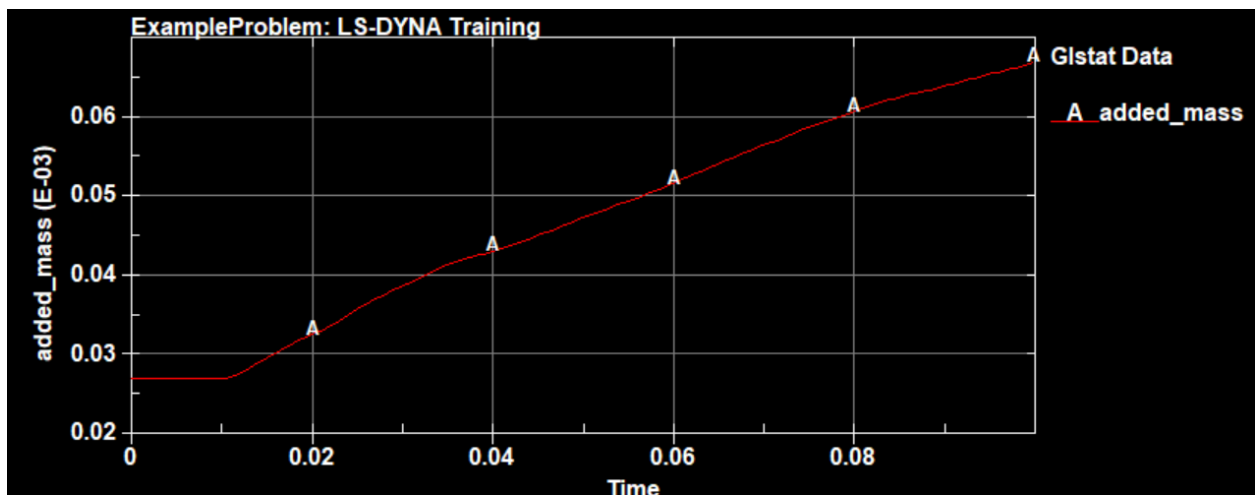
2. Effective Plastic Strain



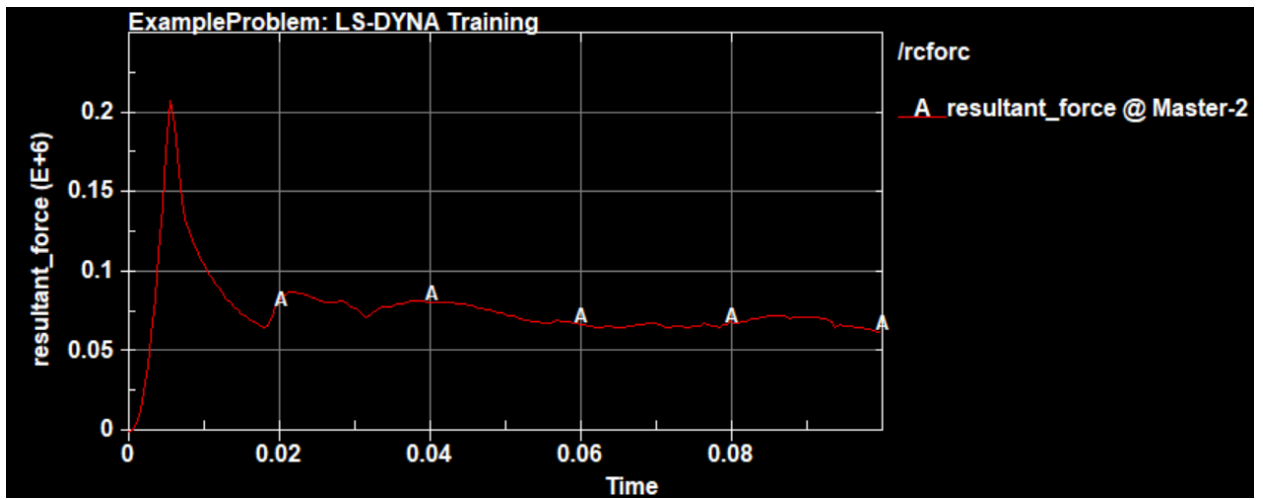
3. Energy – Ratio plot



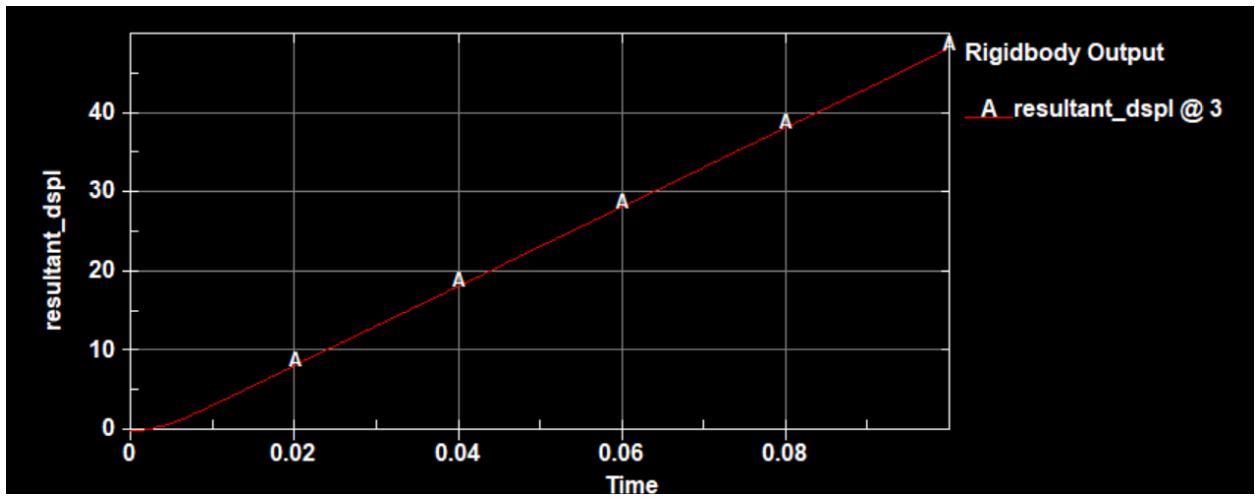
4. Mass Scaling



5. Resultant Force

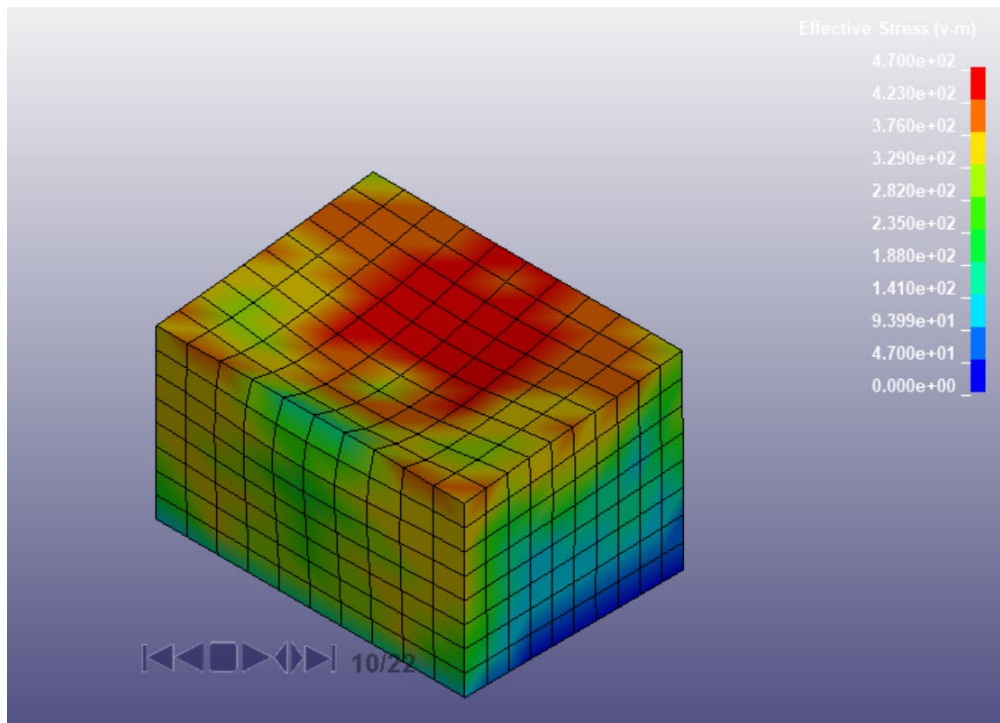
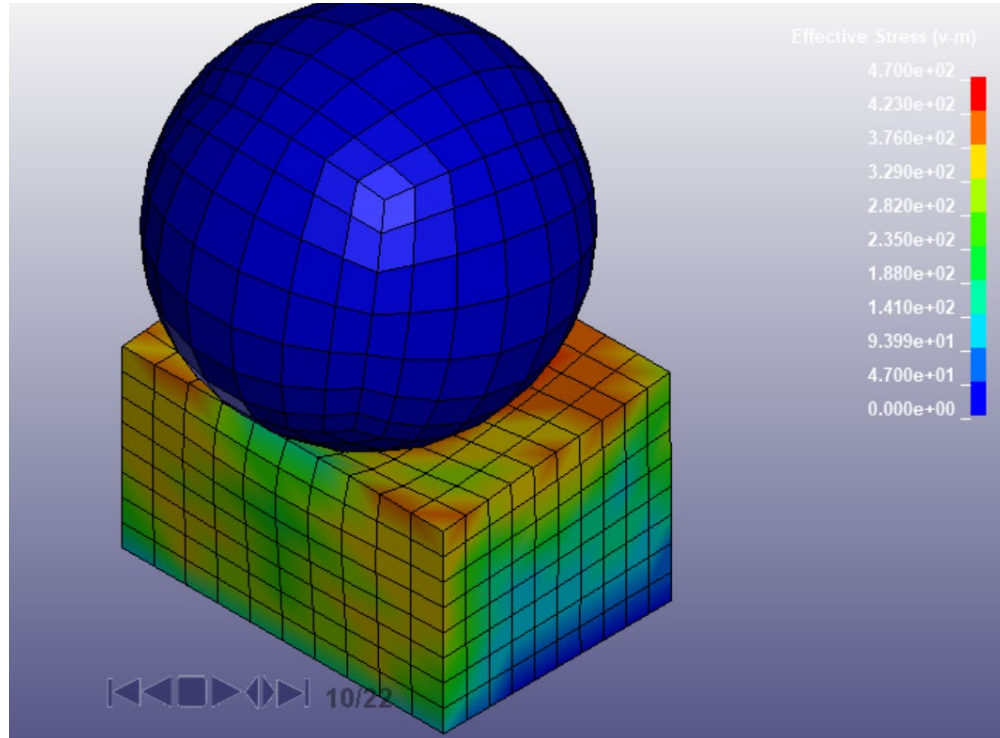


6. Resultant displacement

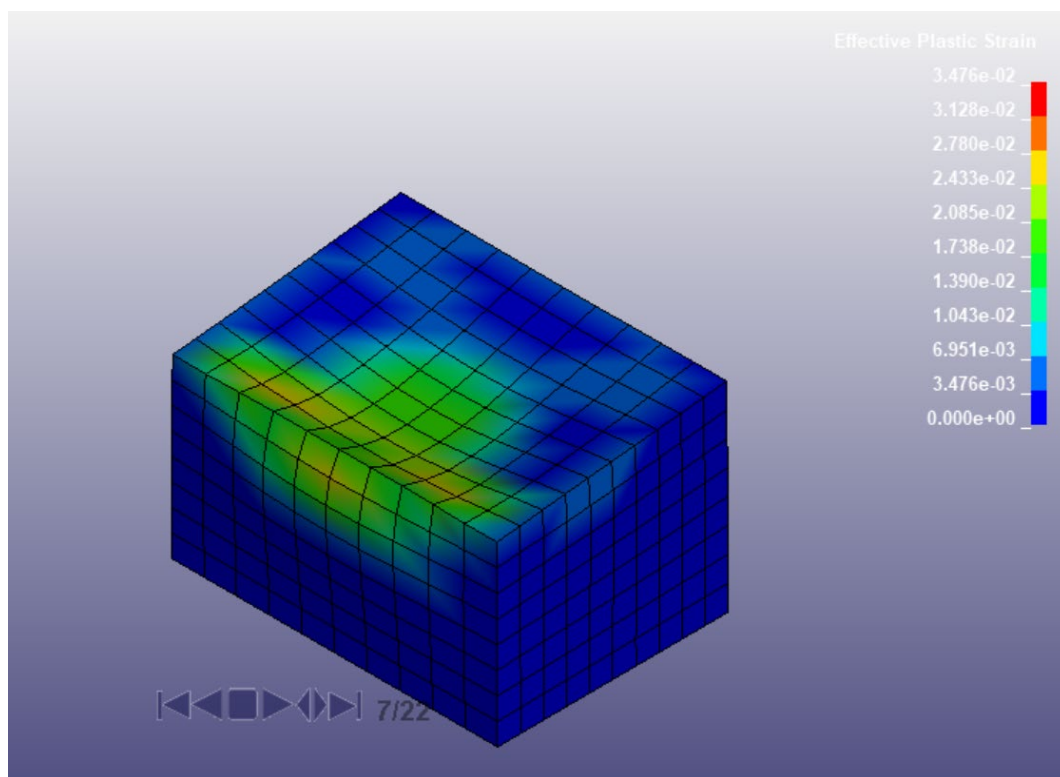
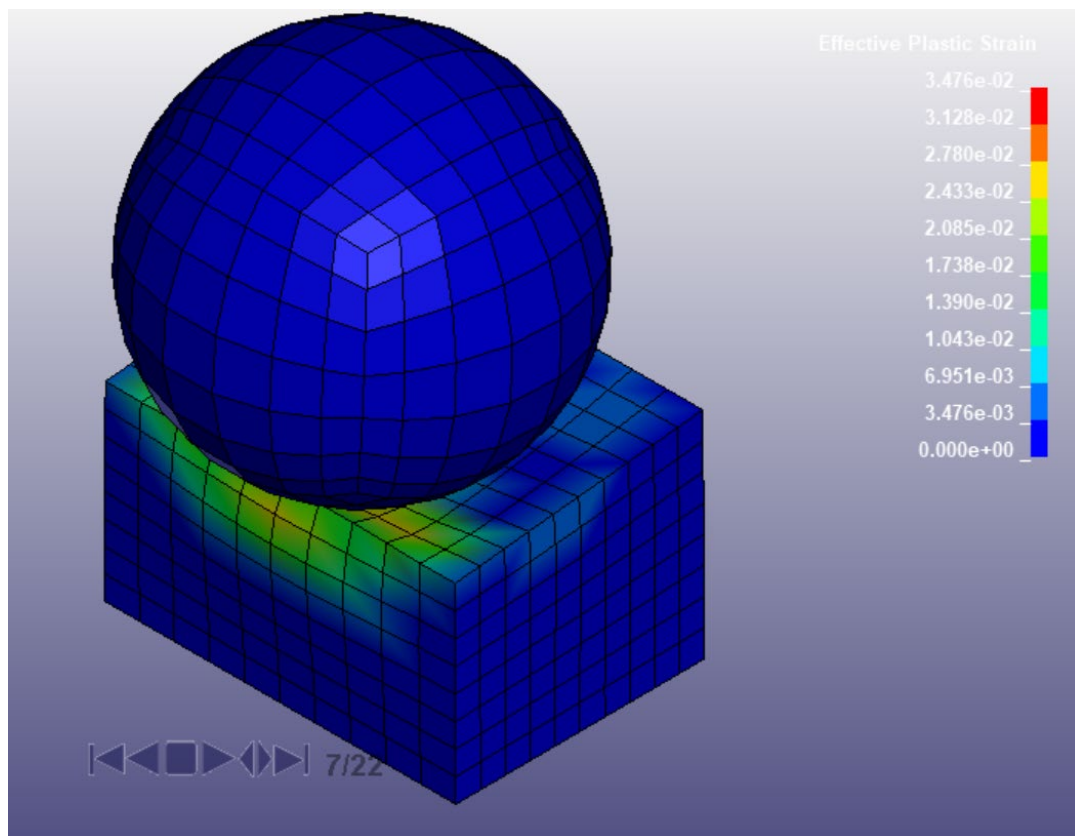


Ball Crushing a Steel Box:

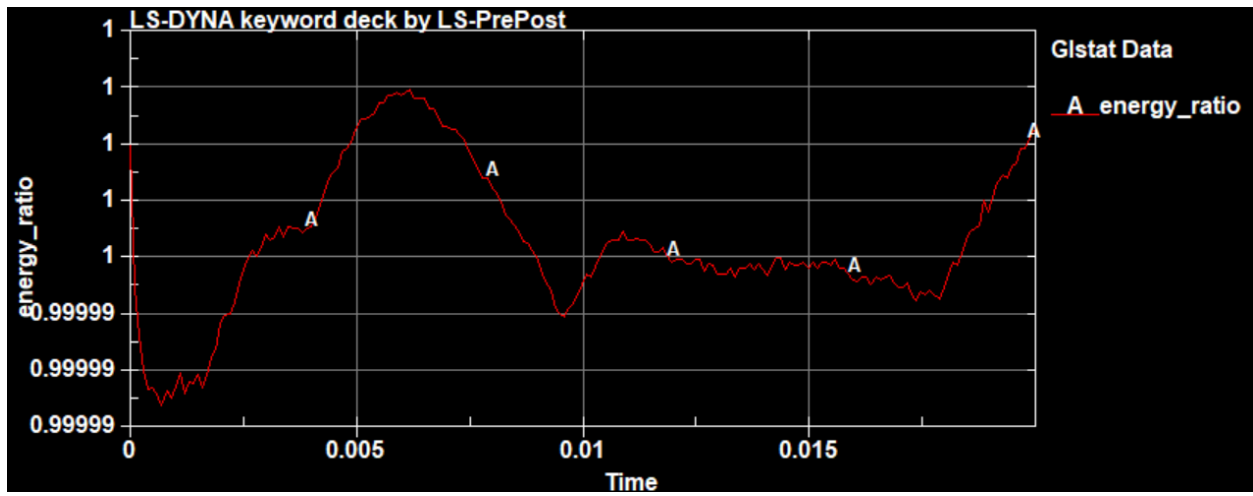
1. Effective Stress



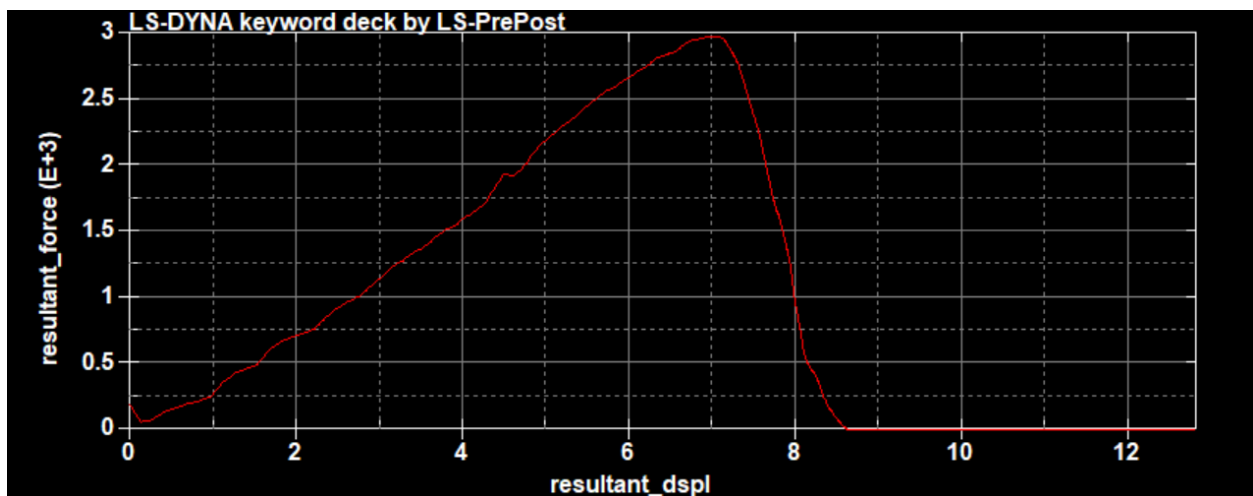
2. Effective Plastic Strain



3. Energy Ratio



4. Resultant Force v/s resultant displacement



movie_000.wmv



movie_001.wmv