



LD Benchmark

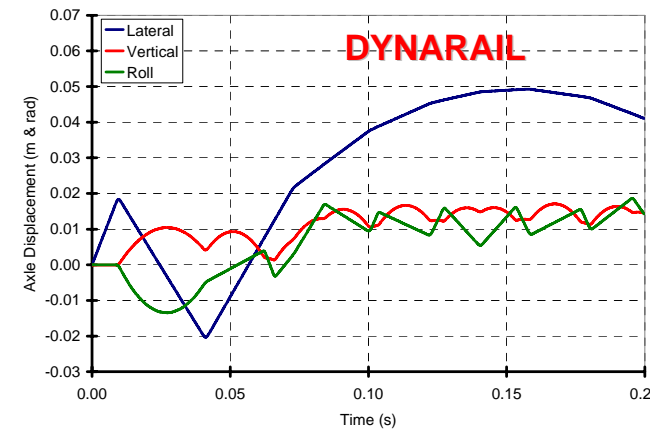
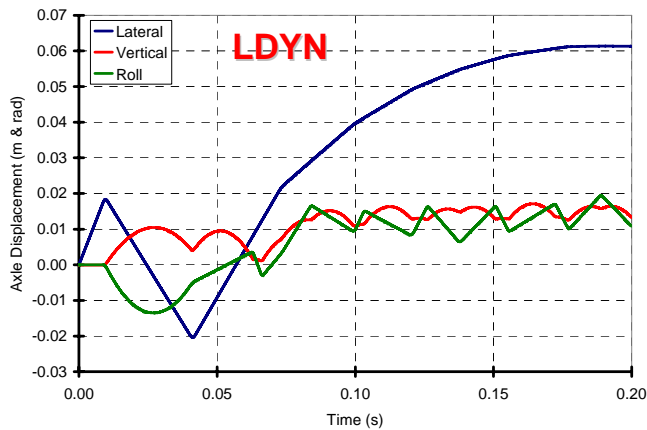
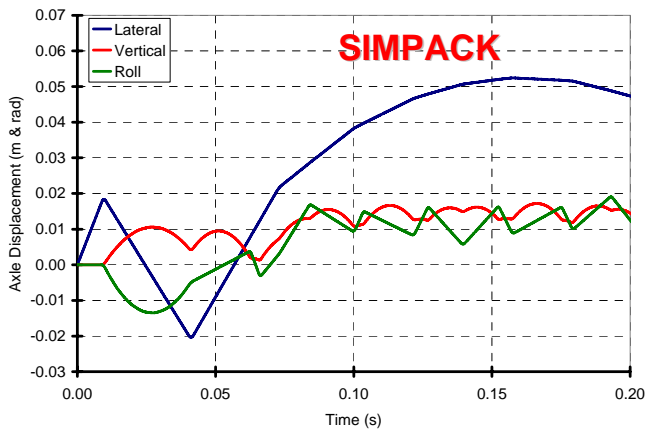
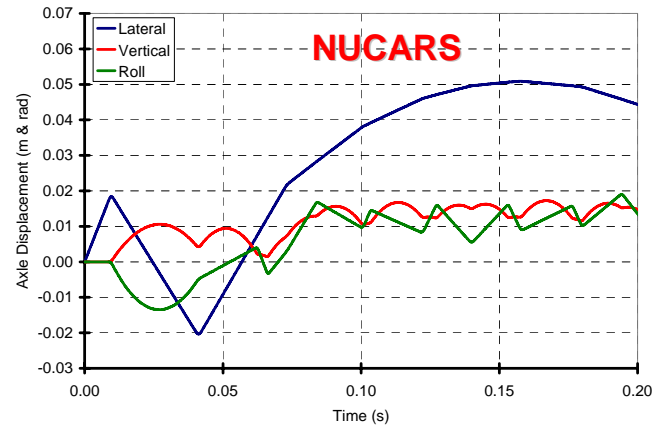
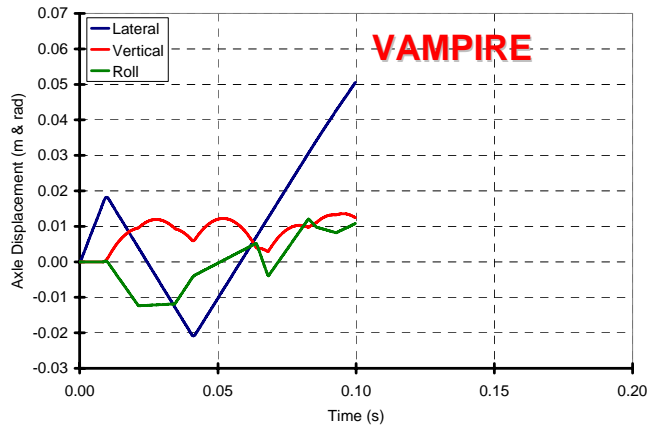
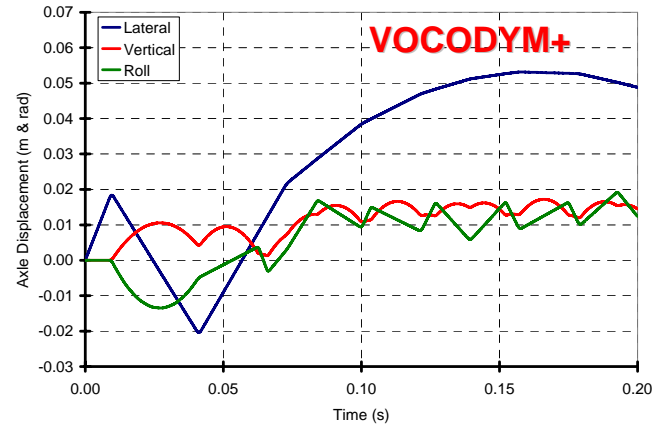
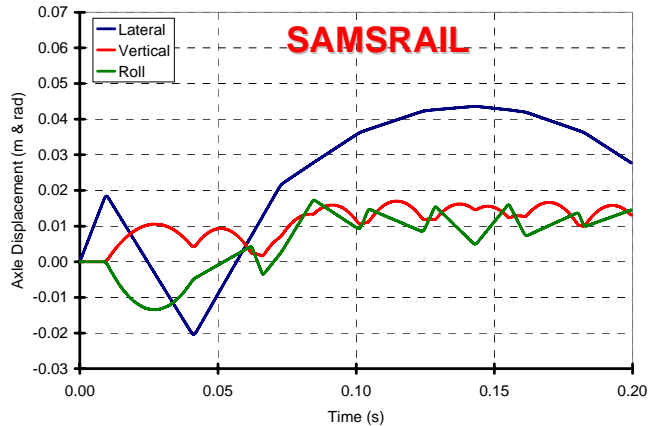
Case 1, Exercise 4 Simplified Wheel and Rail Profile

1 m/s Forward Velocity

2 m/s Initial Lateral Velocity

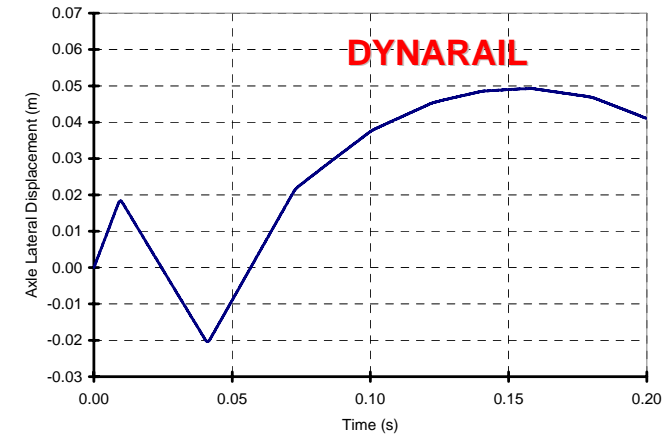
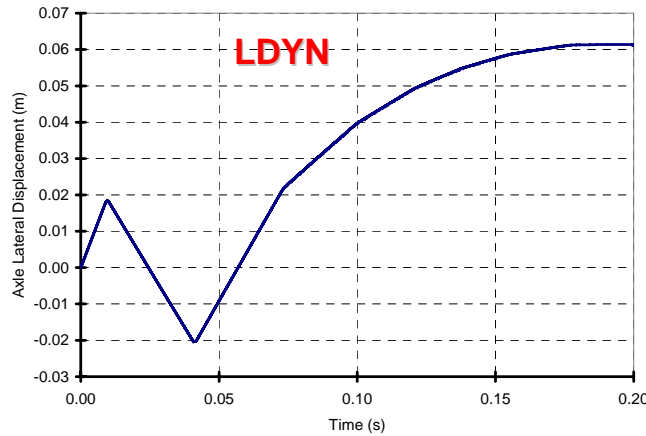
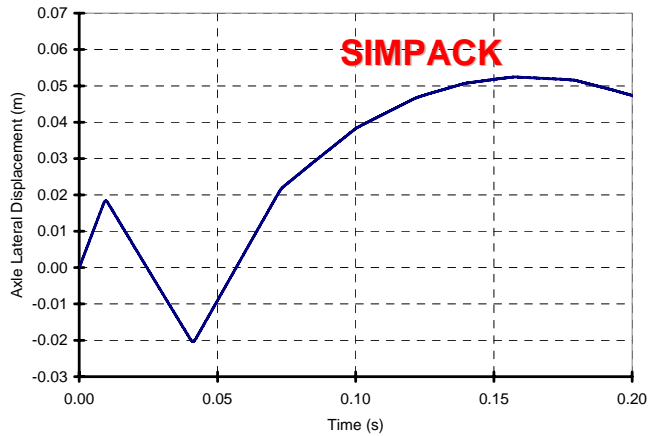
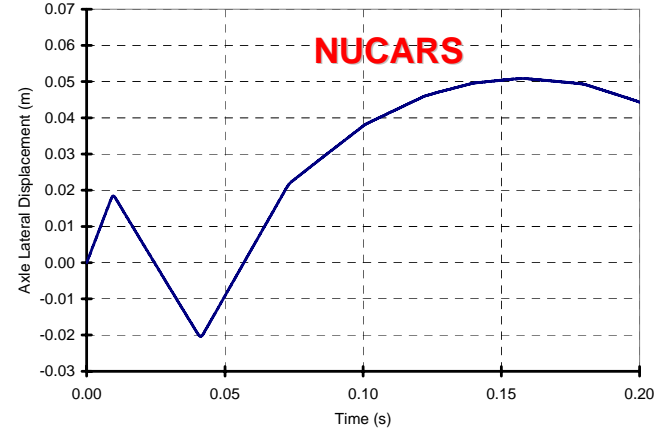
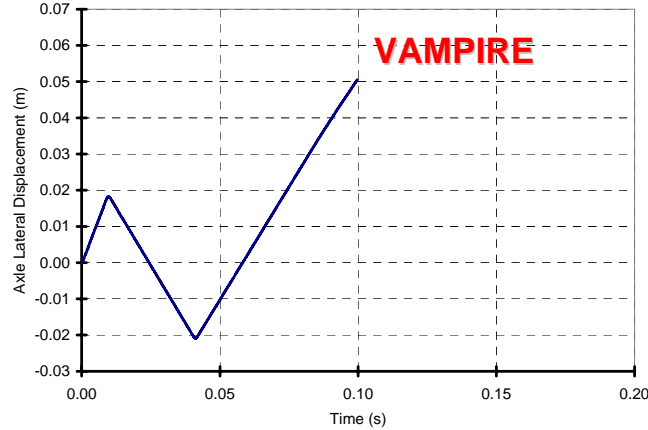
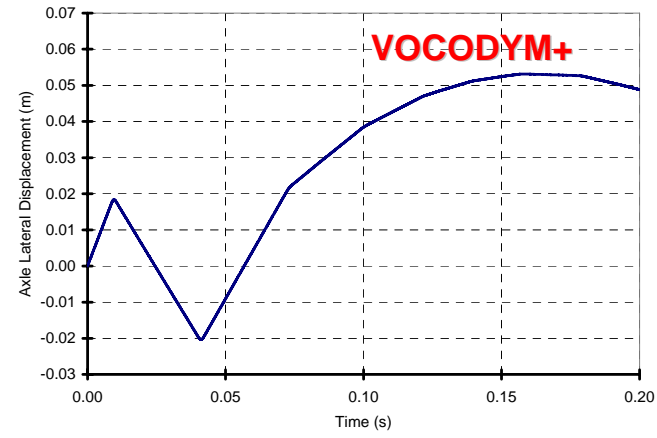
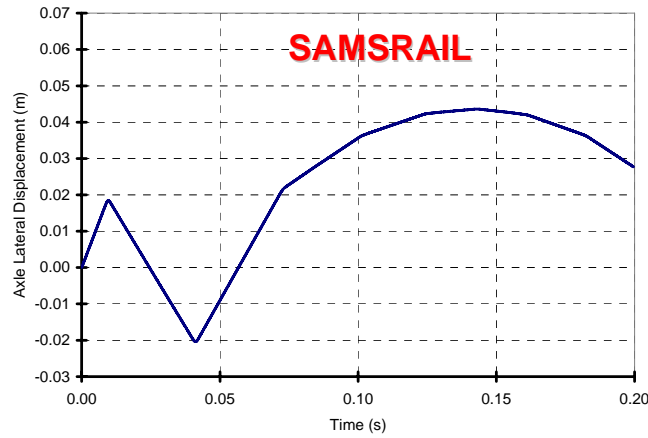


Wheelset Displacement



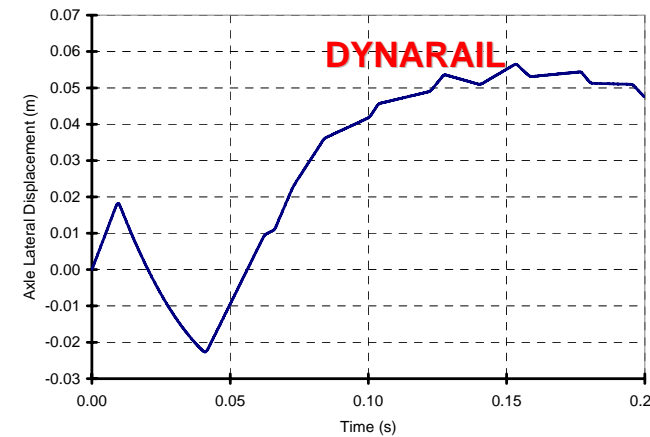
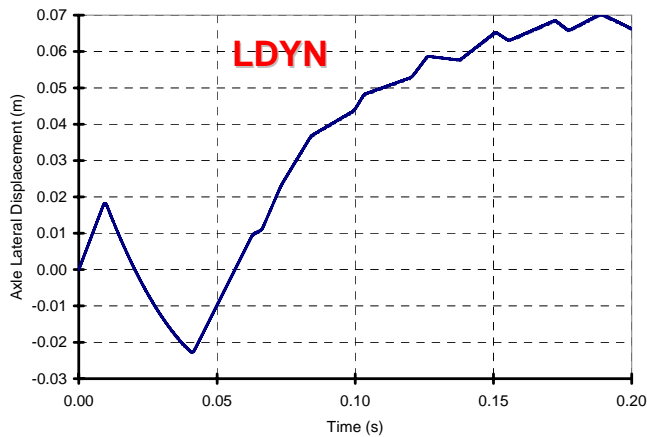
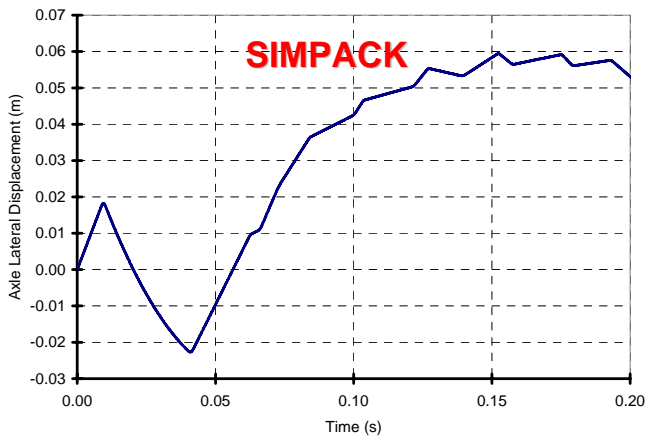
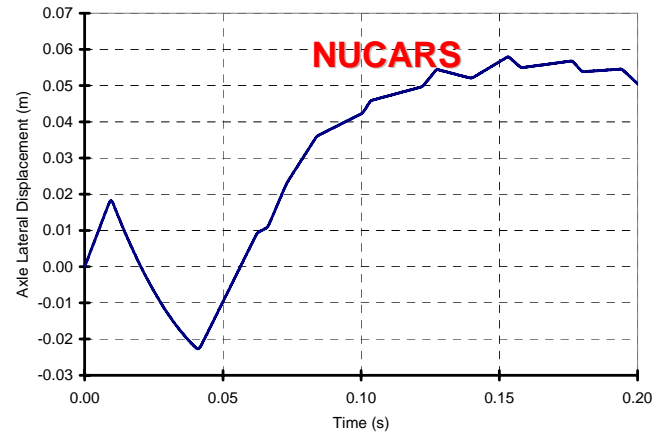
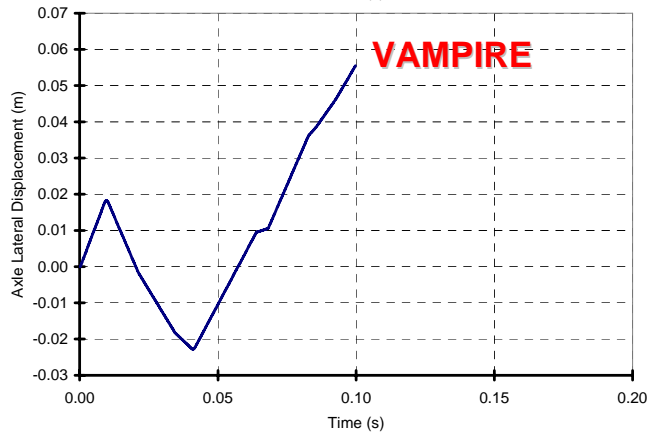
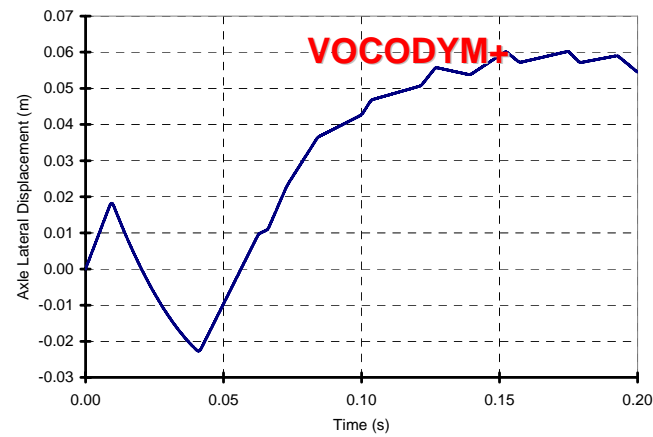
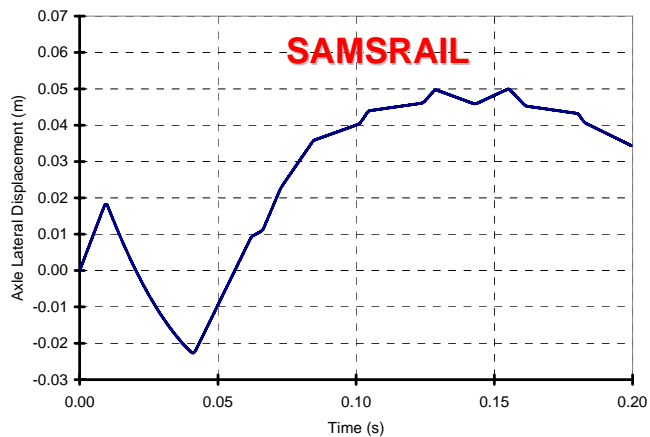


Wheelset Lateral Displacement at Axle CG



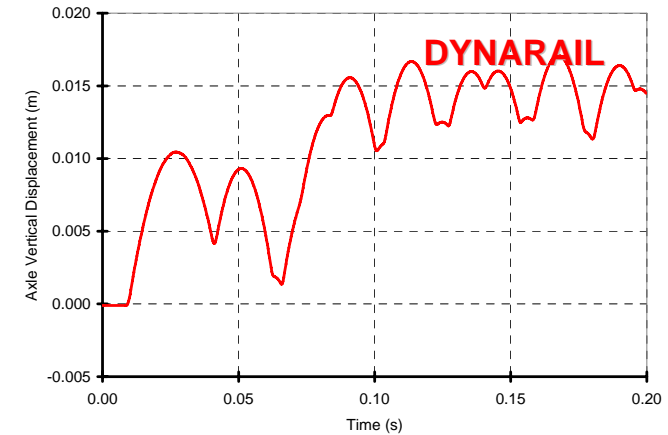
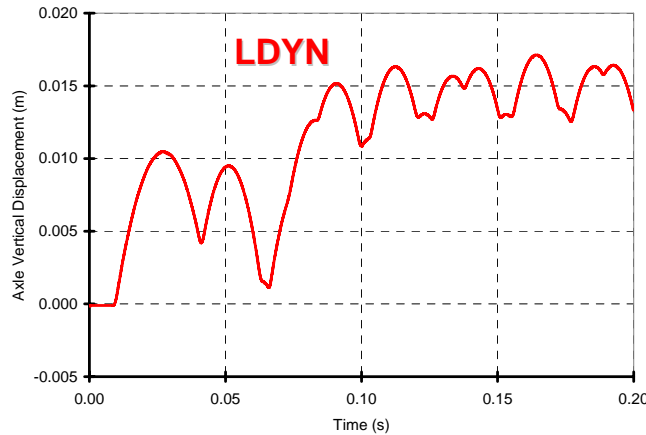
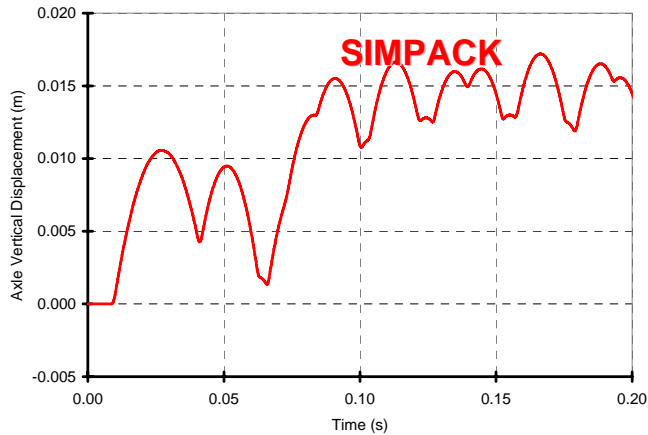
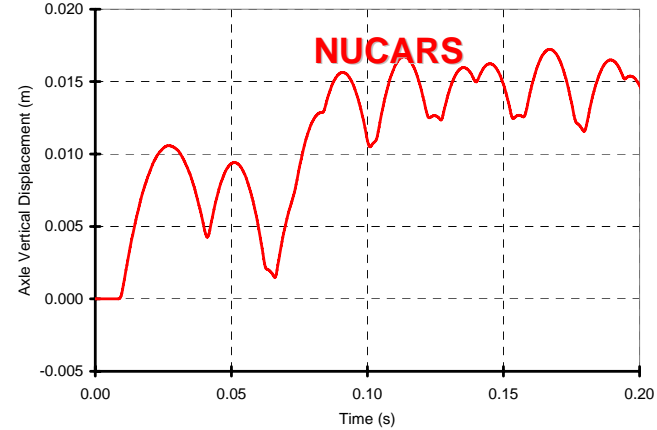
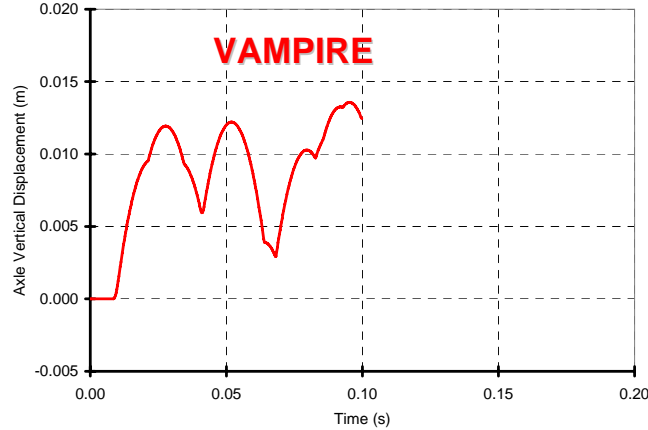
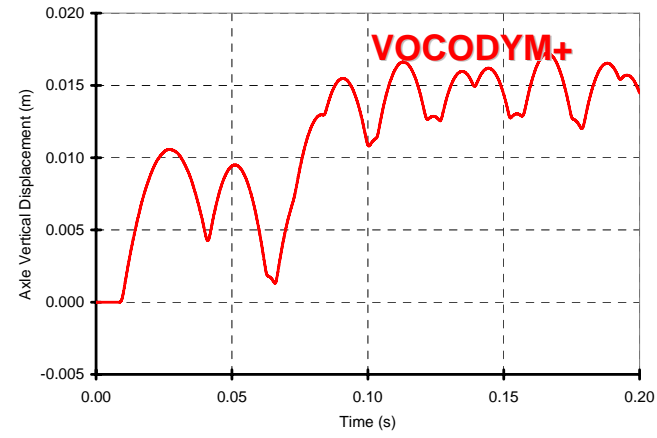
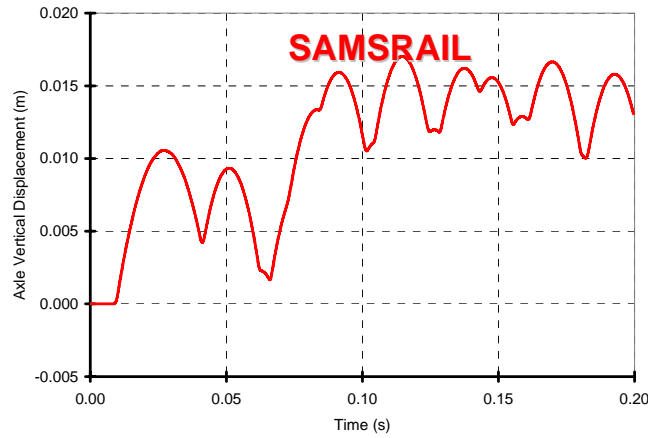


Wheelset Lateral Displacement at Rail Height



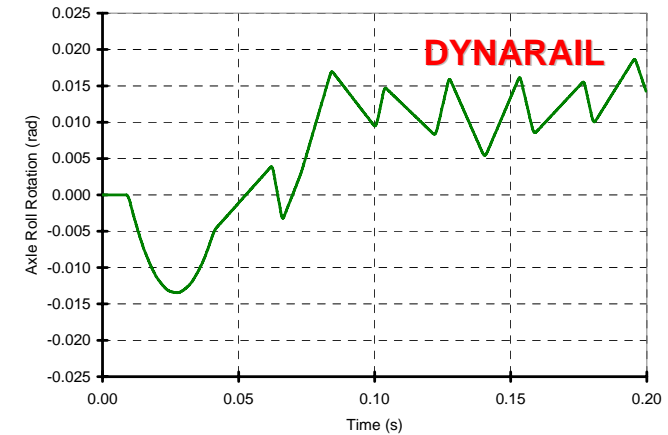
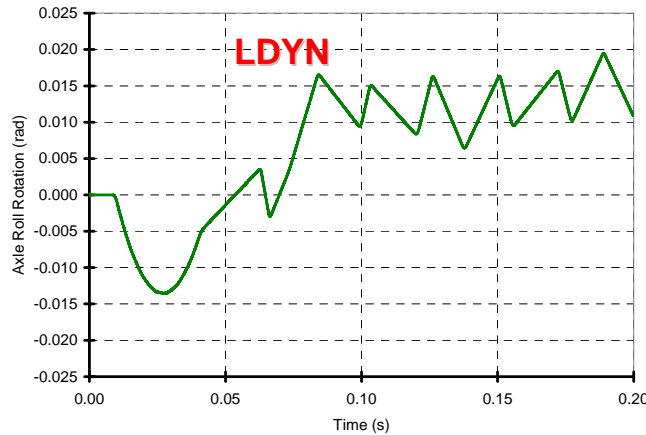
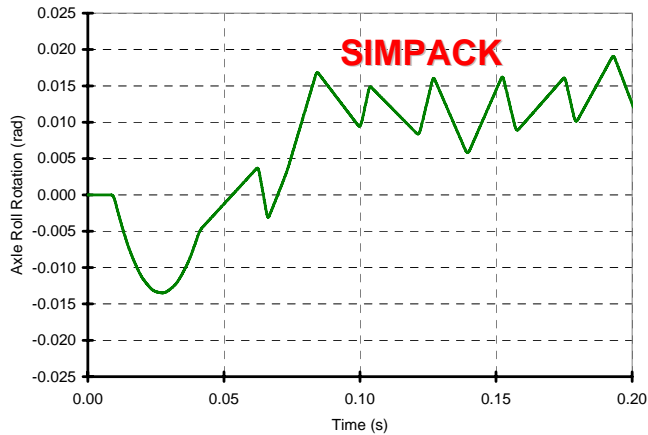
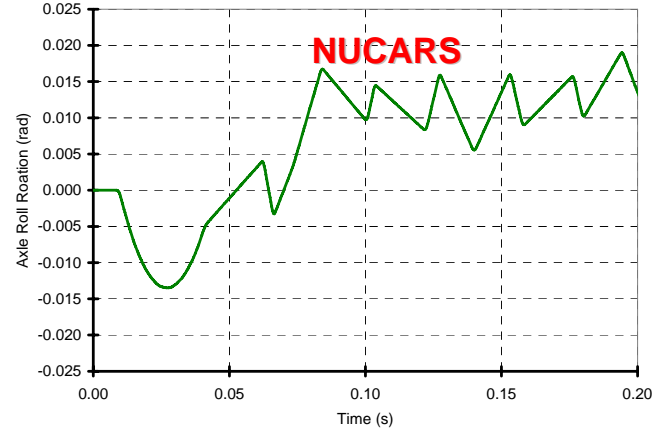
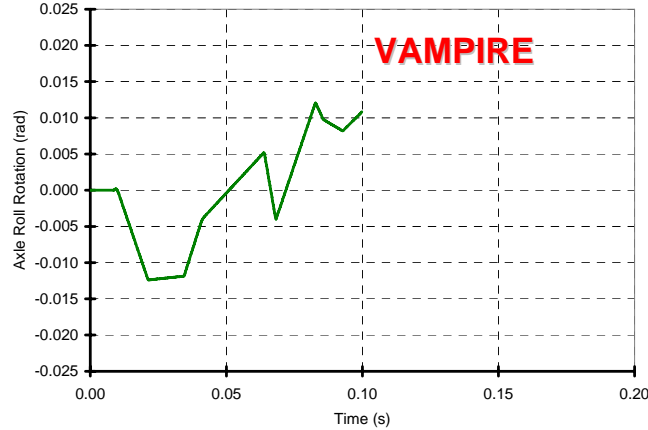
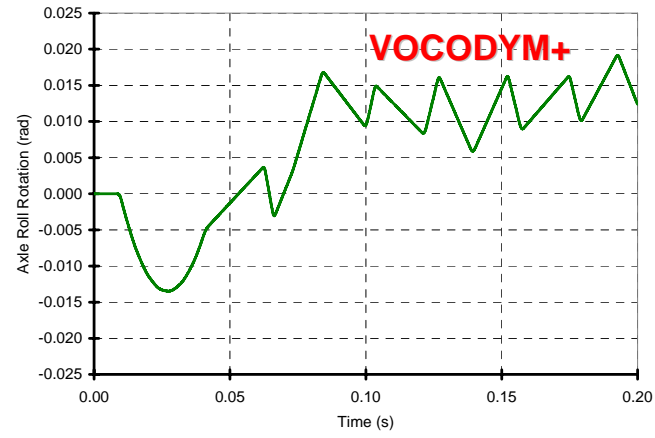
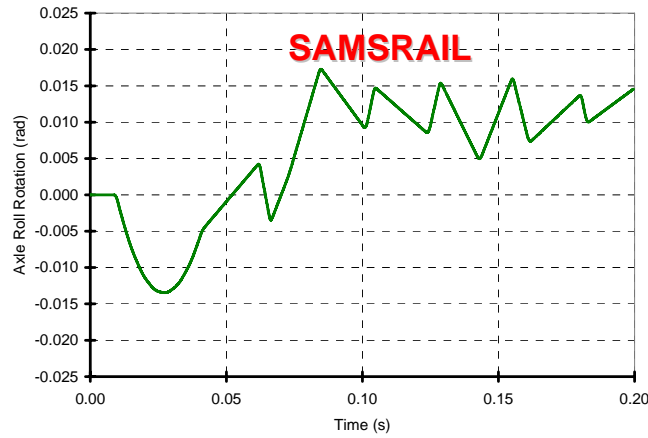


Wheelset Vertical Displacement



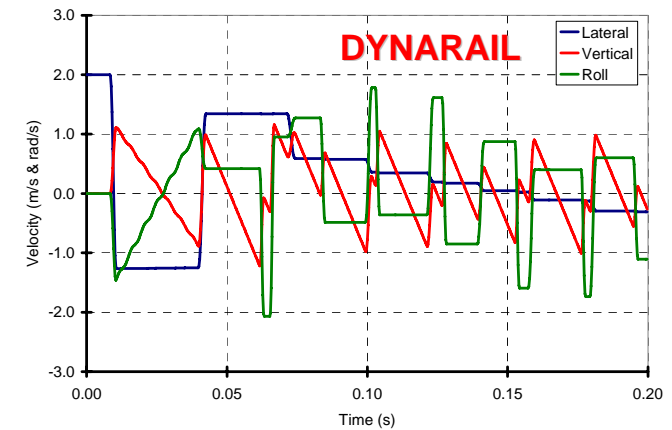
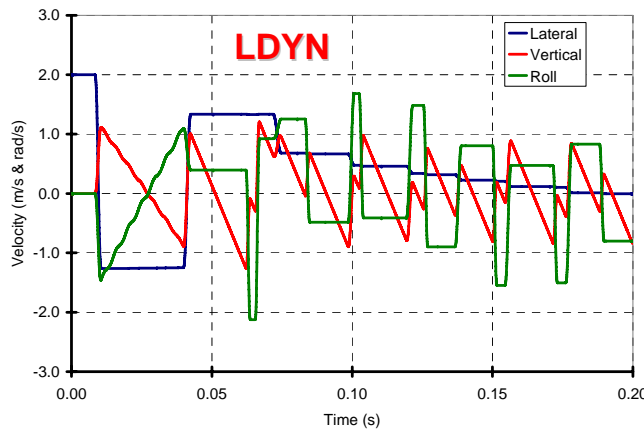
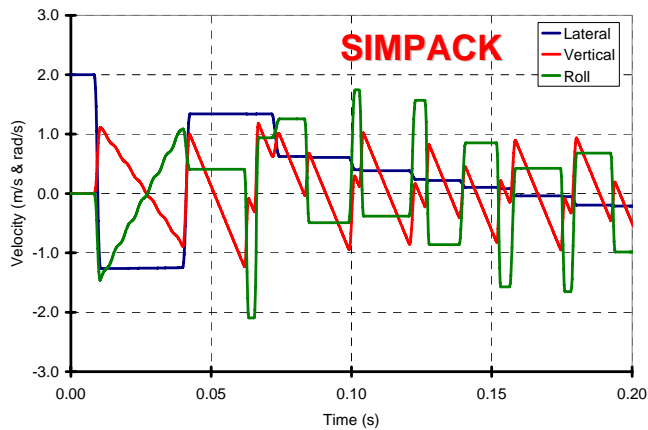
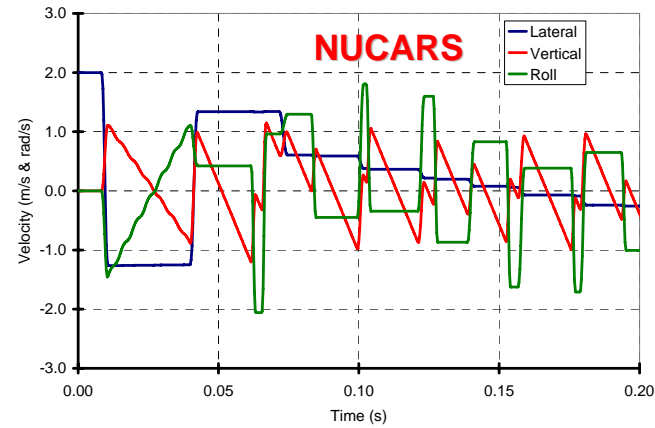
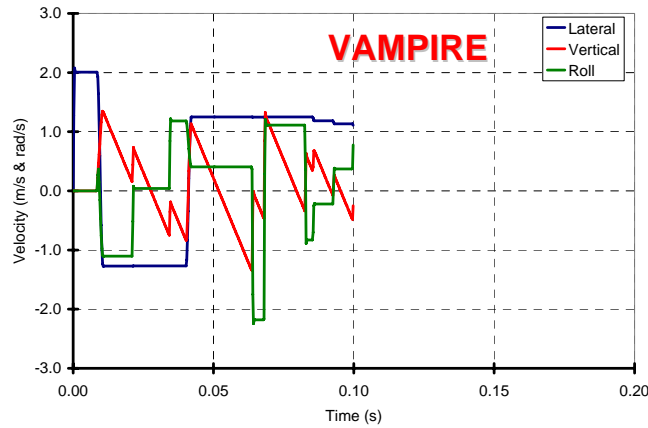
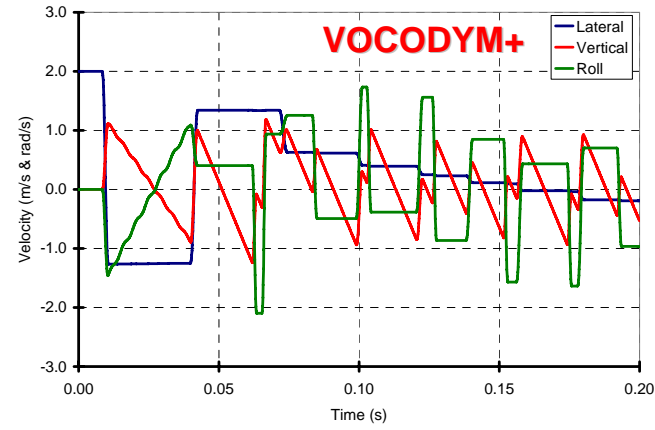
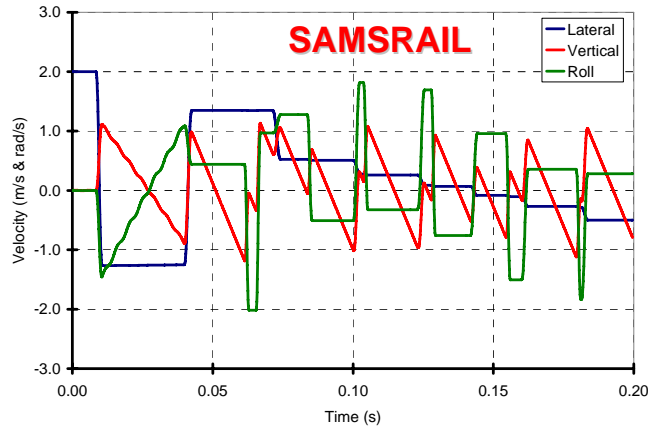


Wheelset Roll Rotation



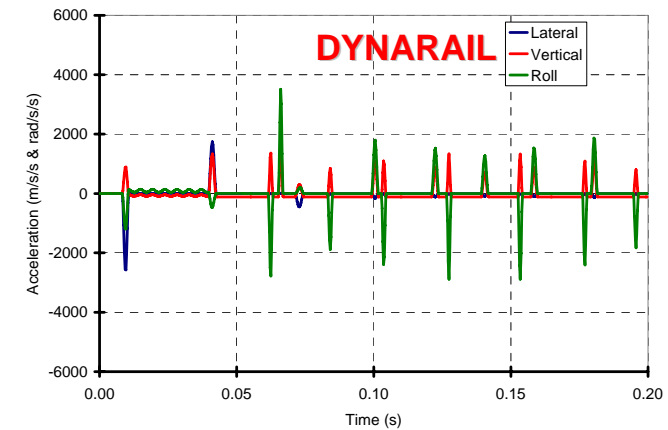
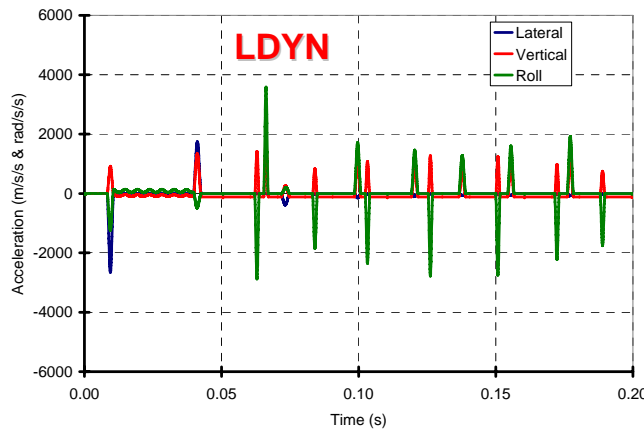
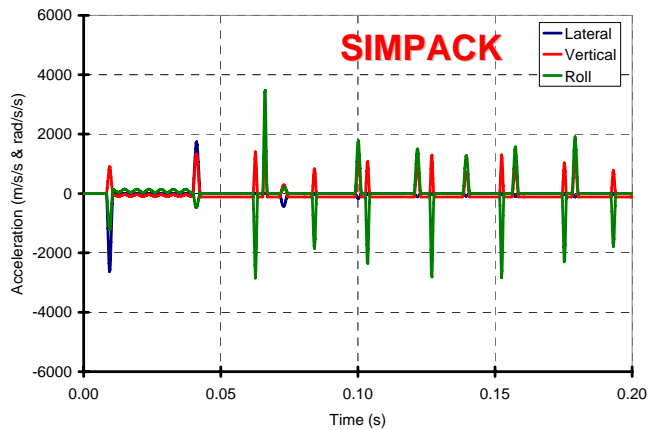
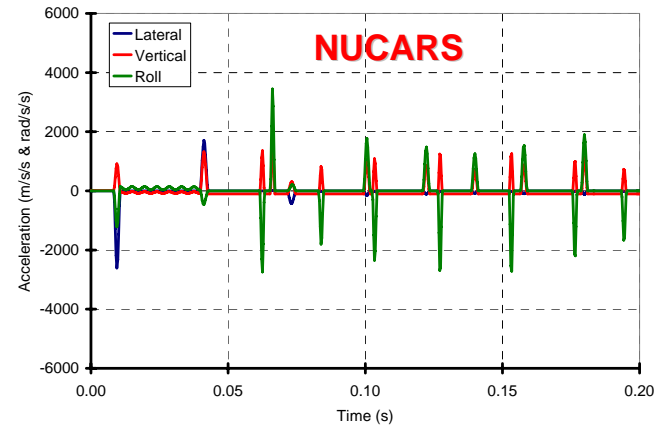
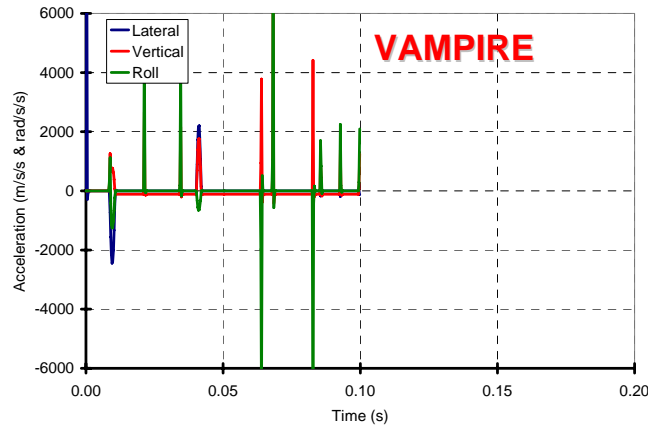
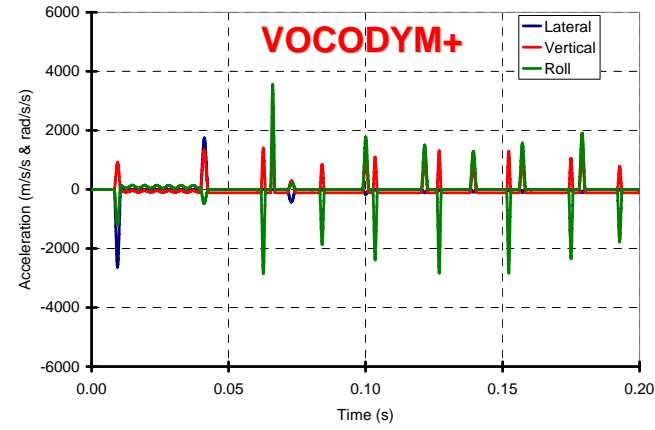
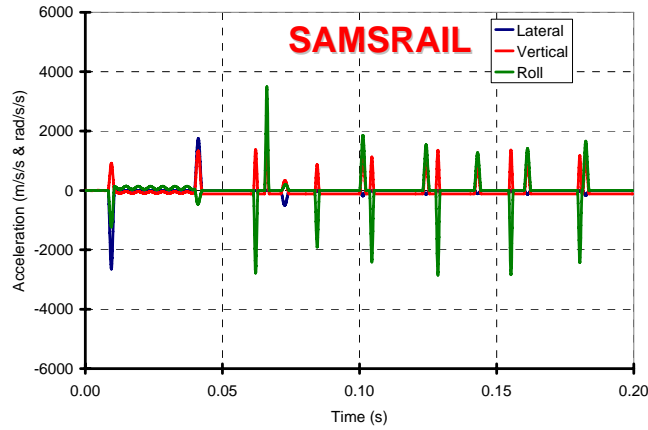


Wheelset Velocity



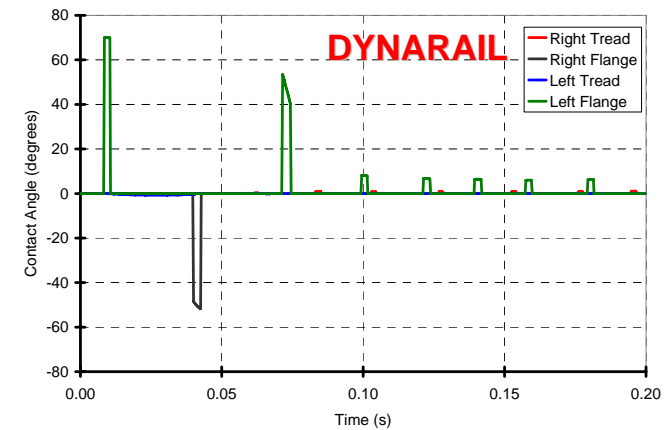
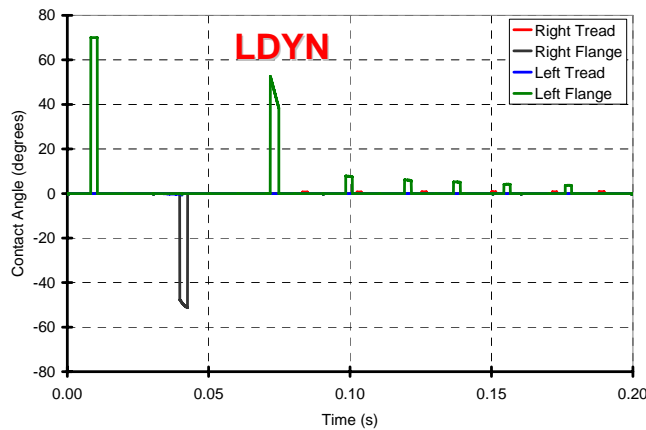
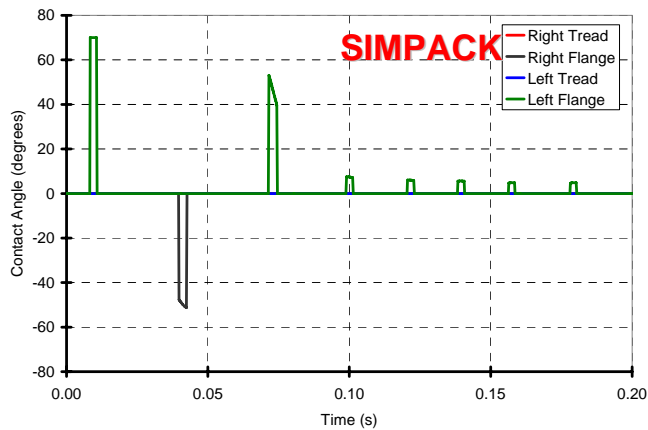
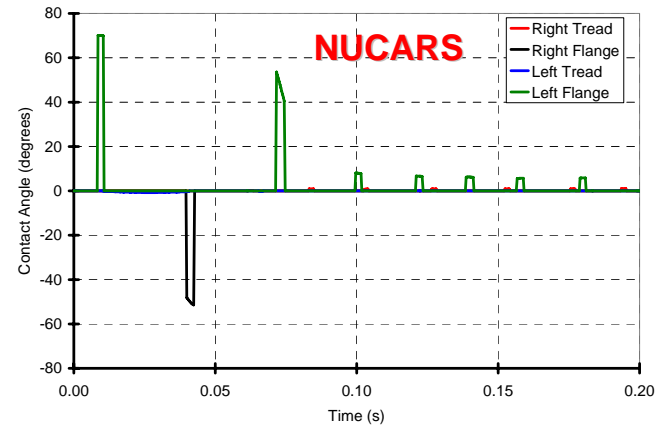
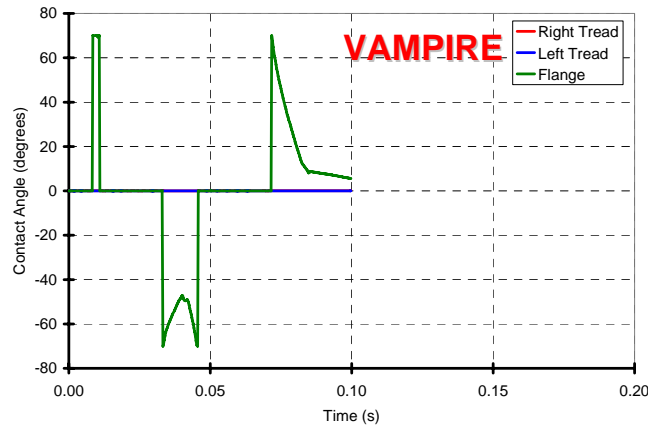
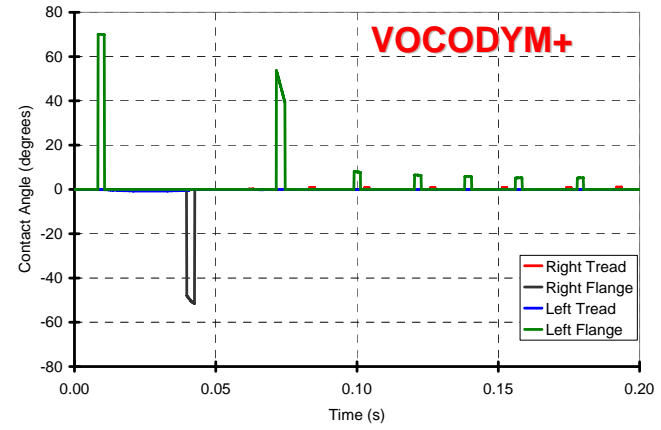
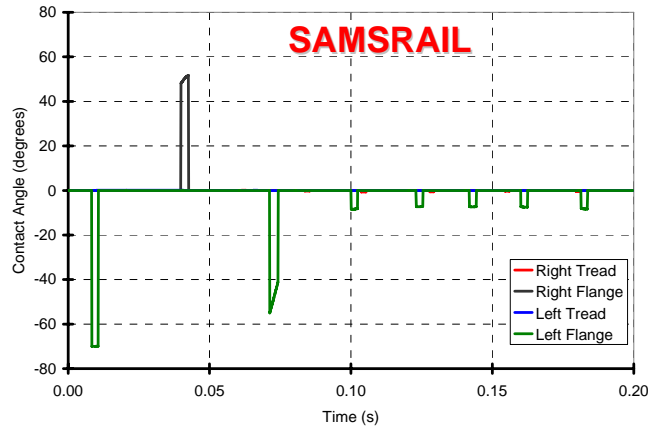


Wheelset Acceleration



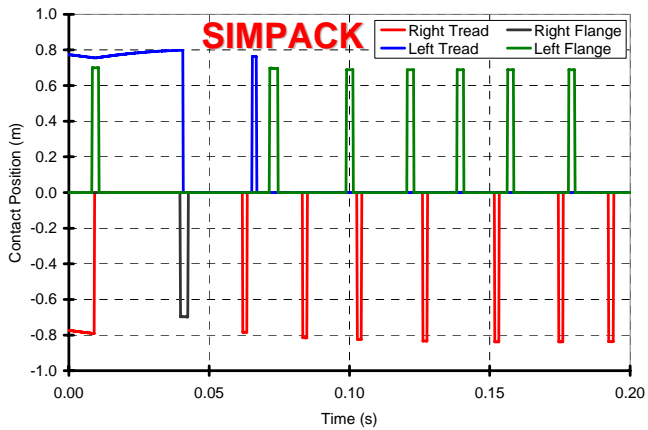
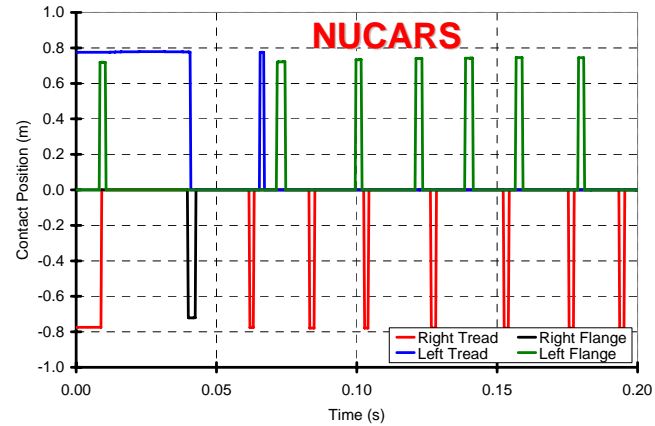
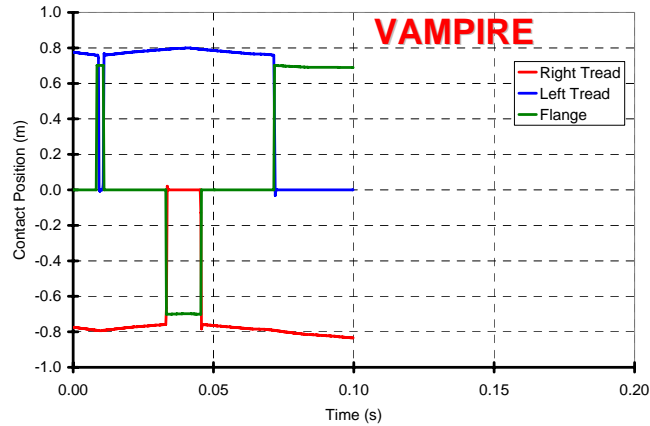
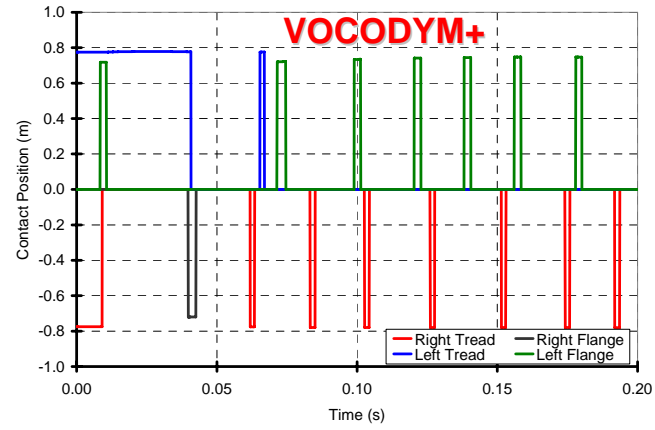
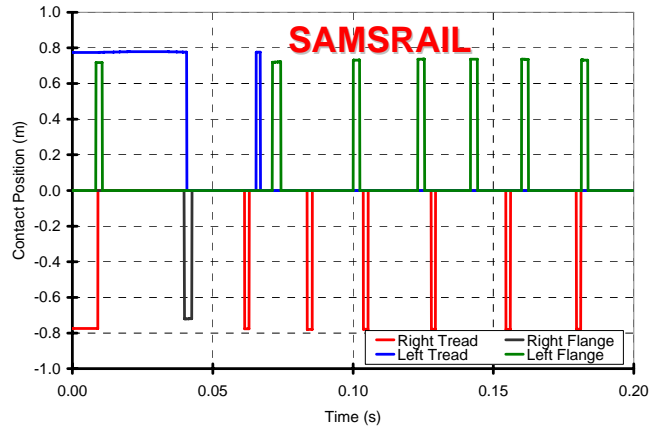


Contact Angle

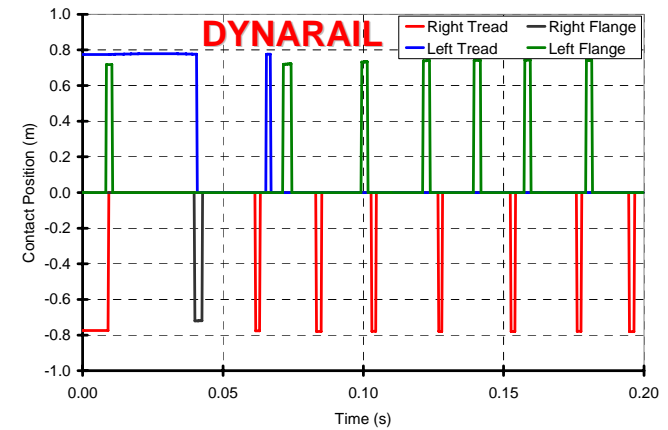




Contact Position

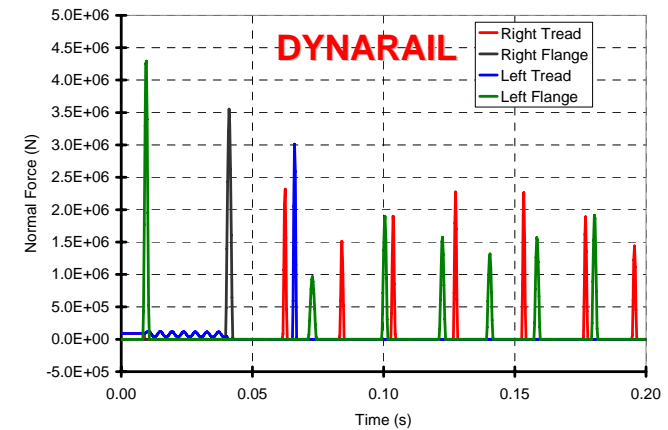
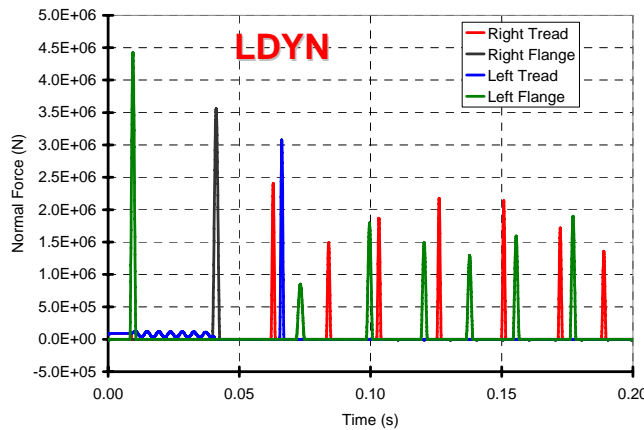
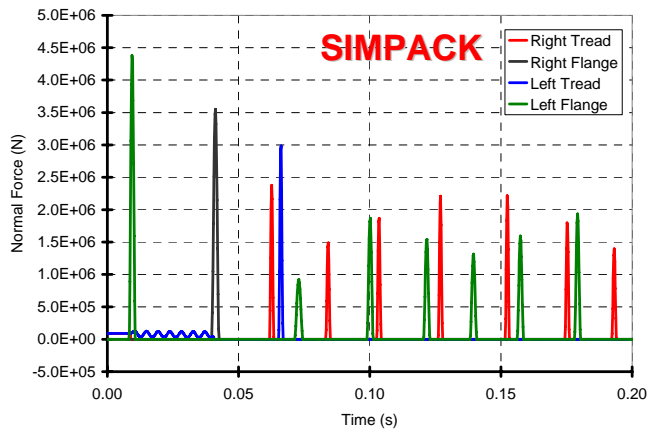
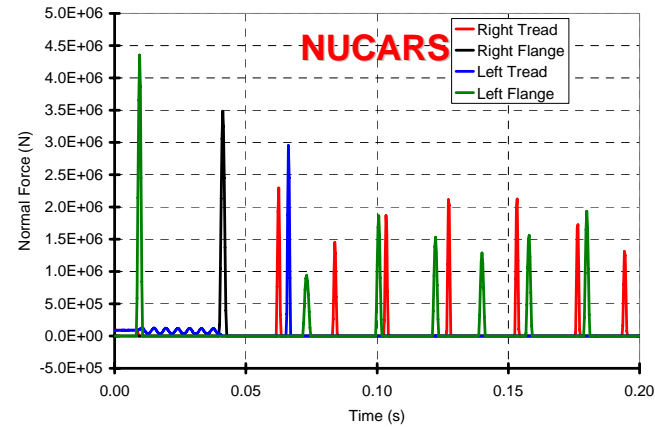
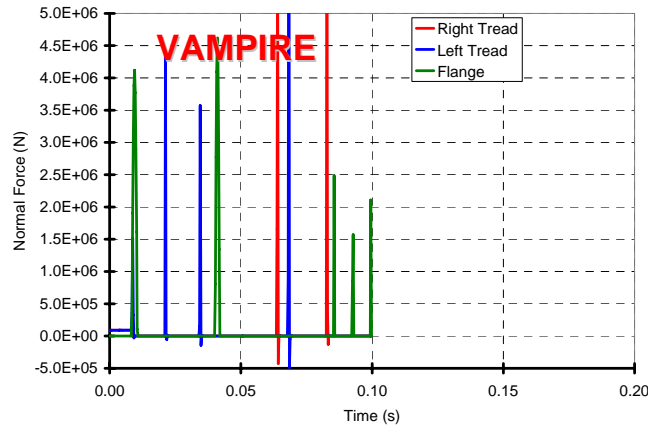
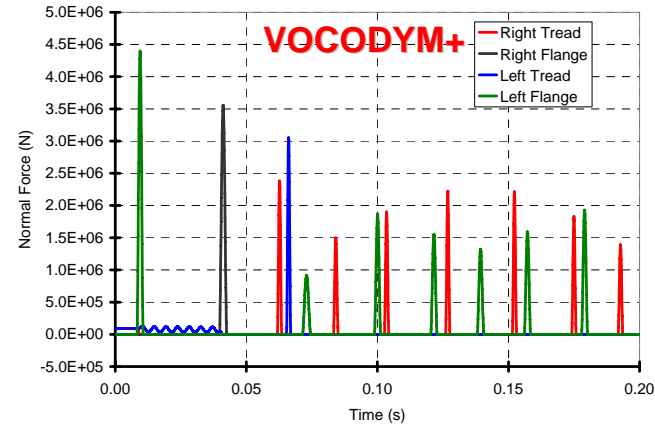
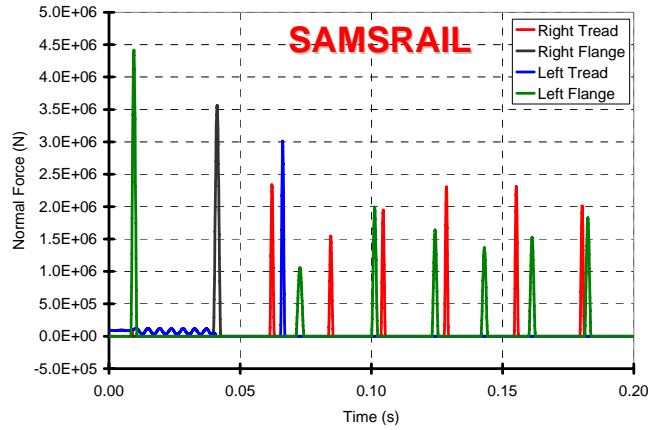


LDYN





Normal Force





Energy Balance

