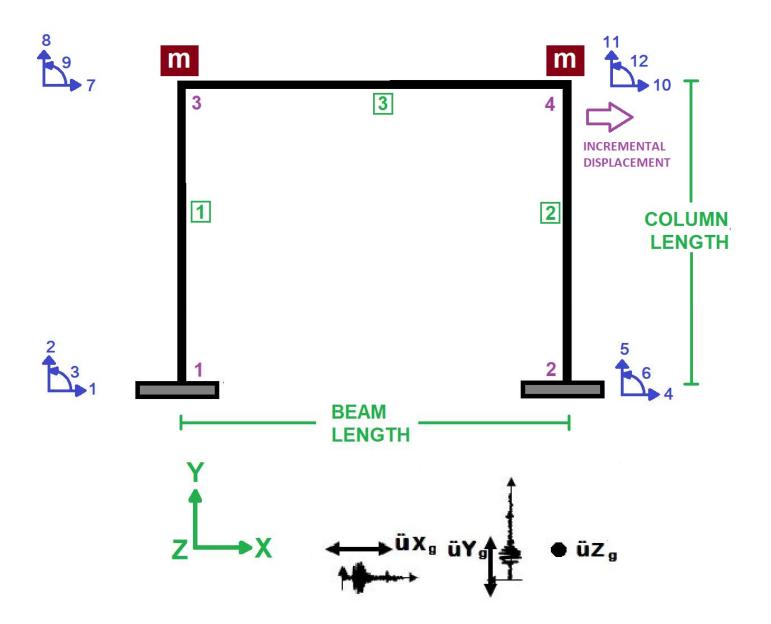
IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

INCREMENTAL DYNAMIC SEISMIC ANALYSIS OF CONCRETE FRAME USING OPENSEES

WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)





CORE AND COVER CONCRETE RELATION



WITHOUT HARDENING AND ULTIMATE STRAIN



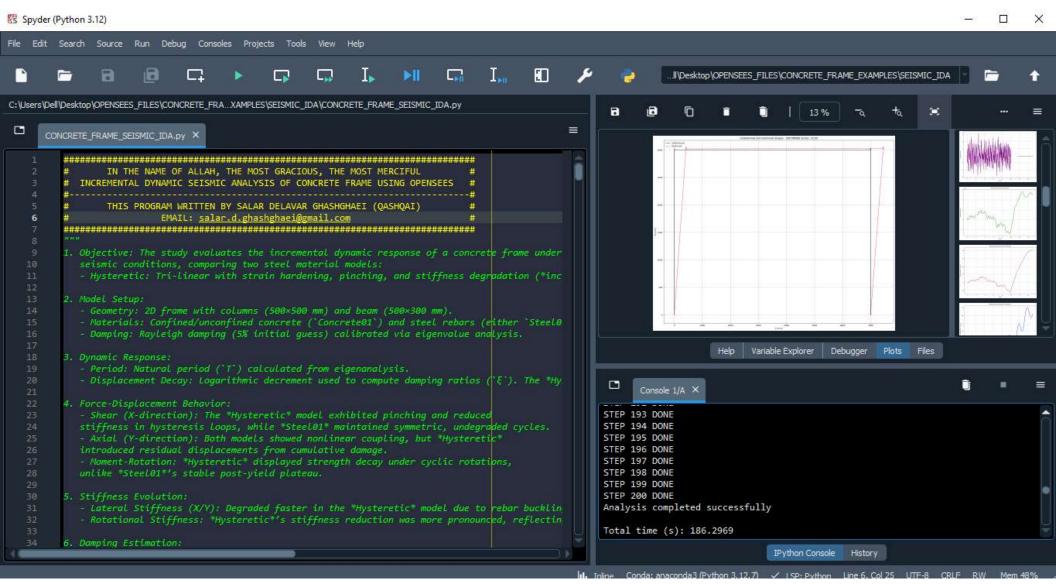
WITH HARDENING AND ULTIMATE STRAIN



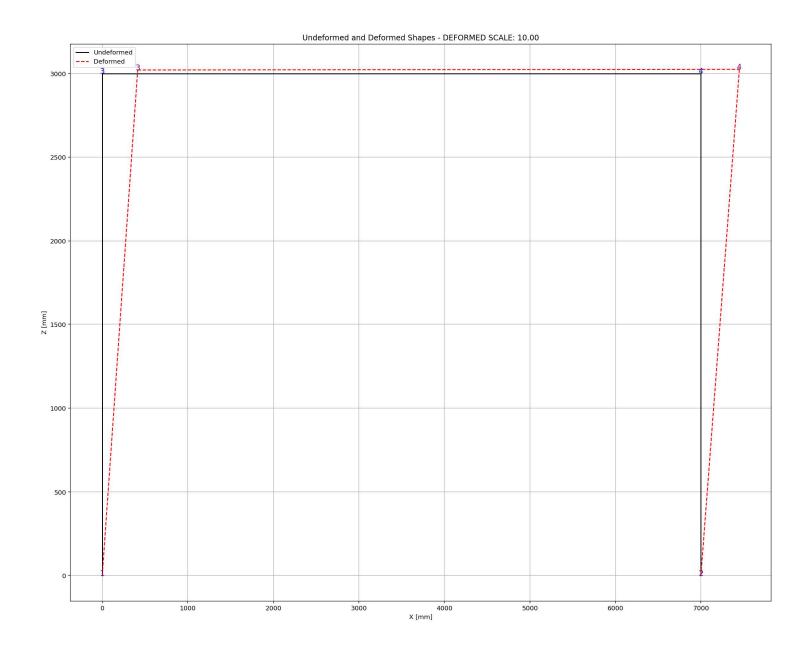
COLUMN SECTION

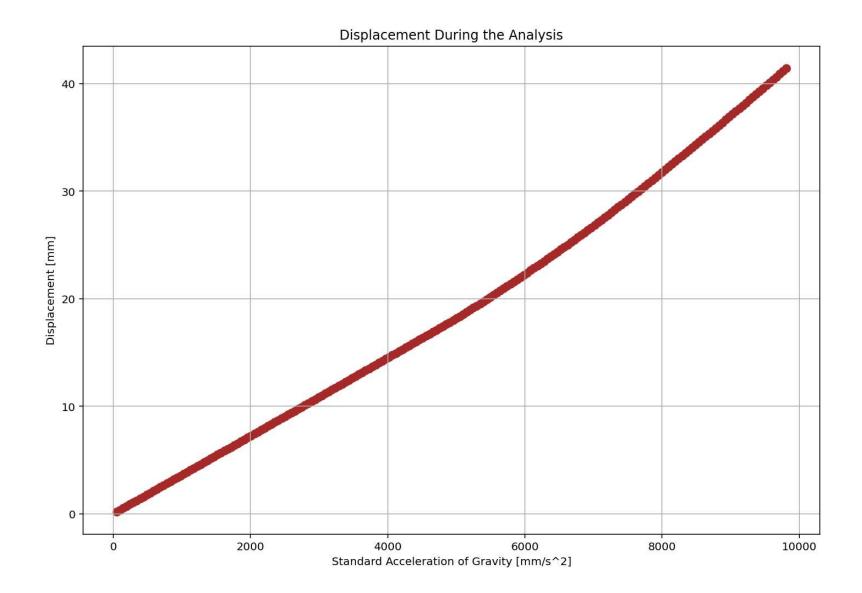


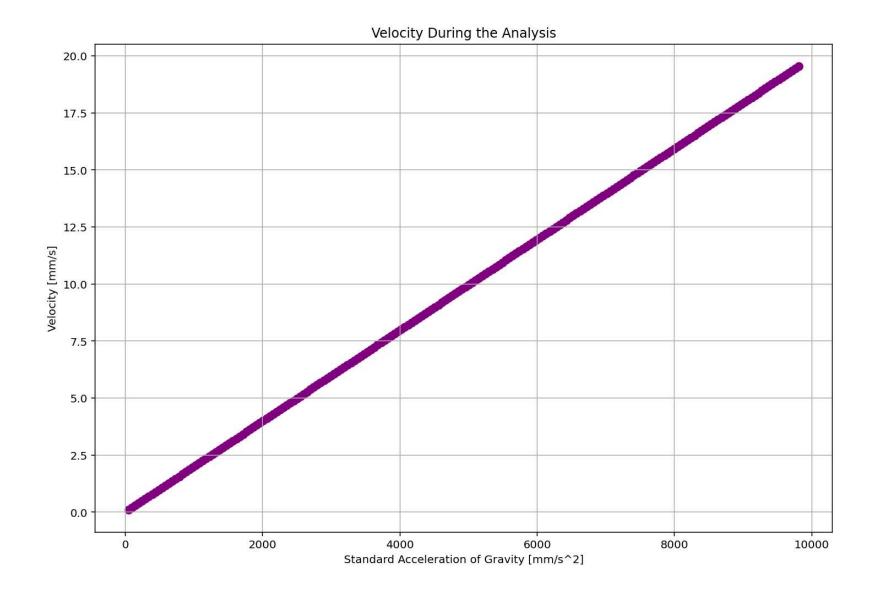
BEAM SECTION

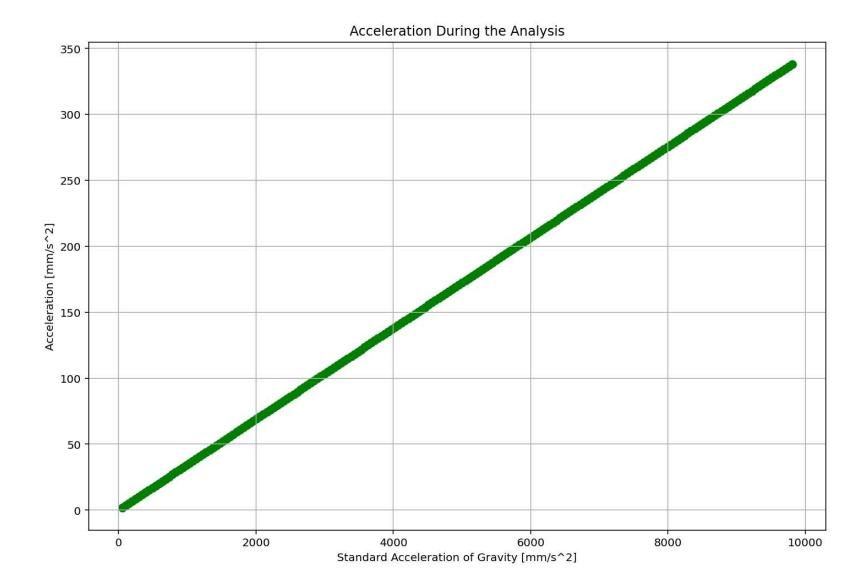


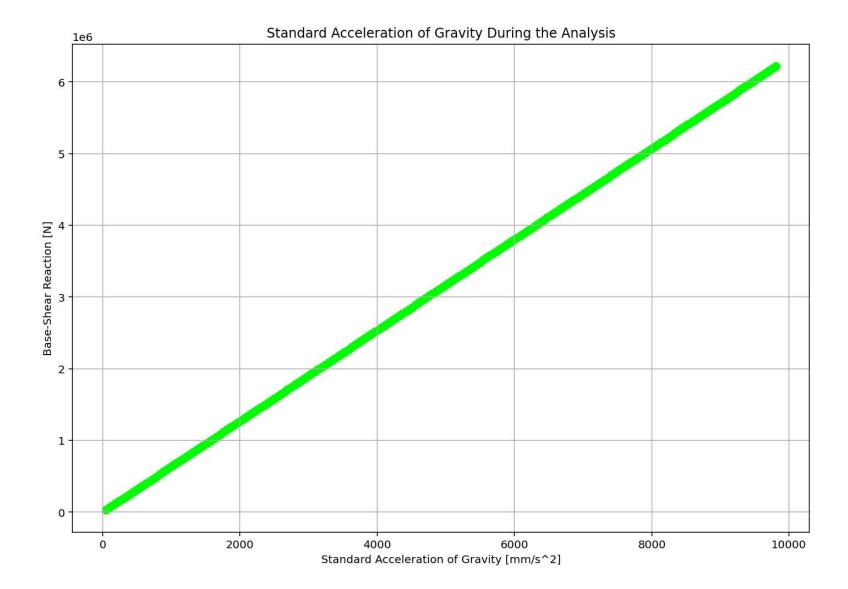
NONLINEAR DYNAMIC ANALYSIS

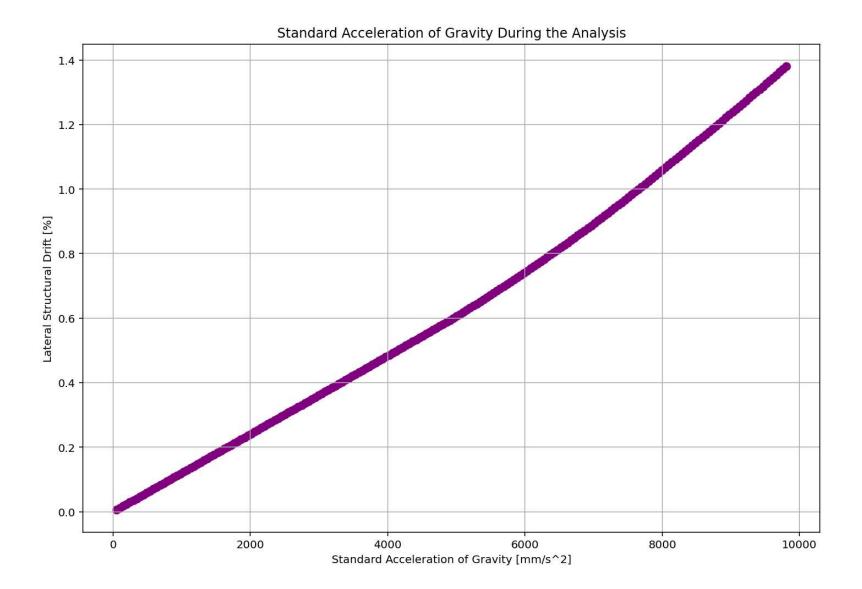


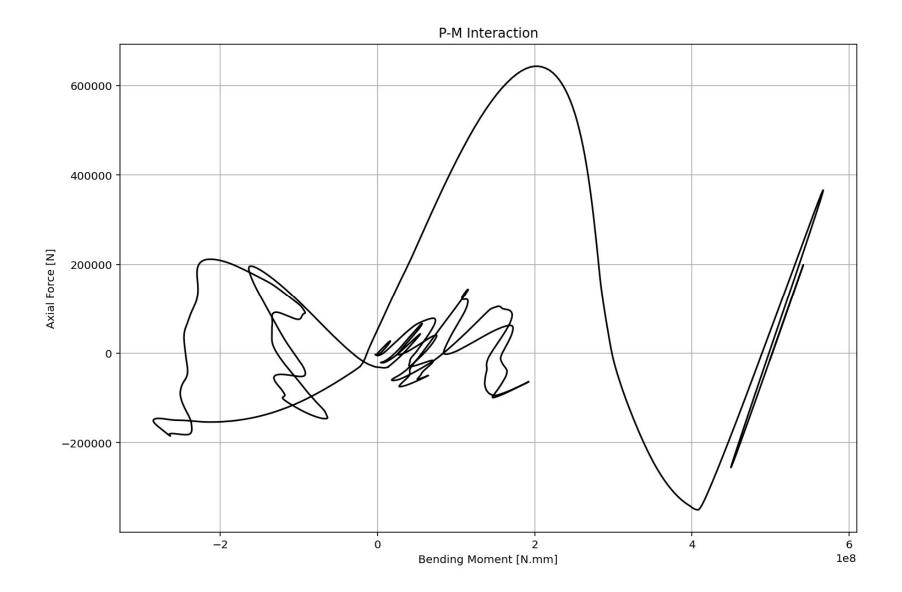


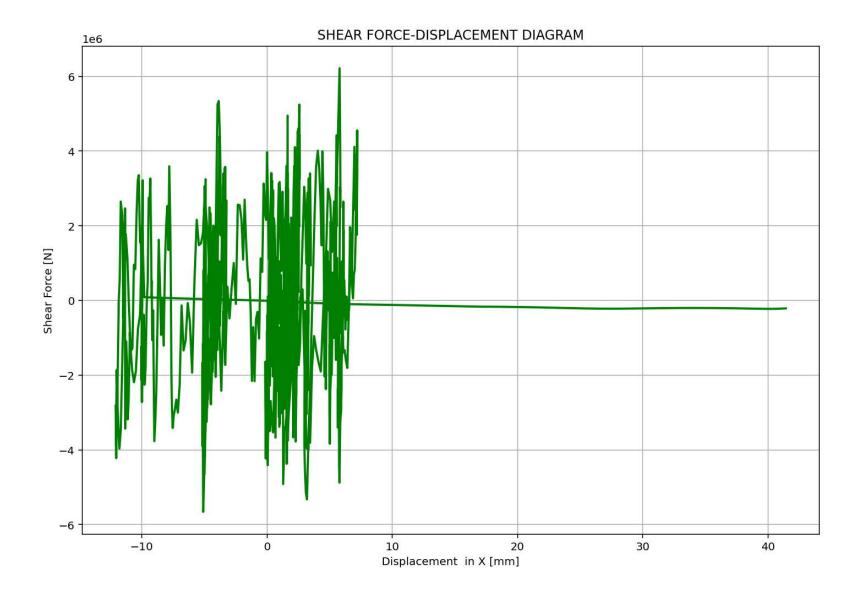


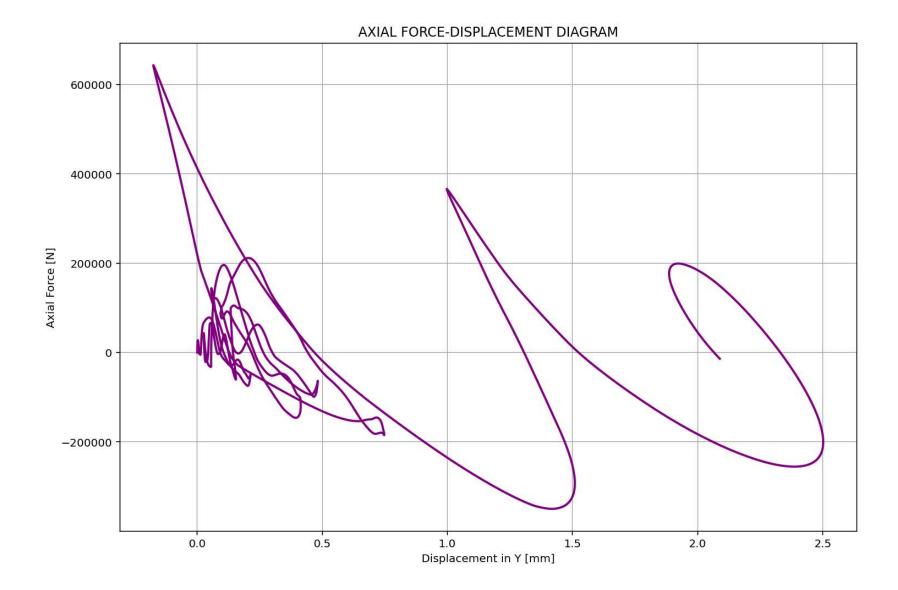


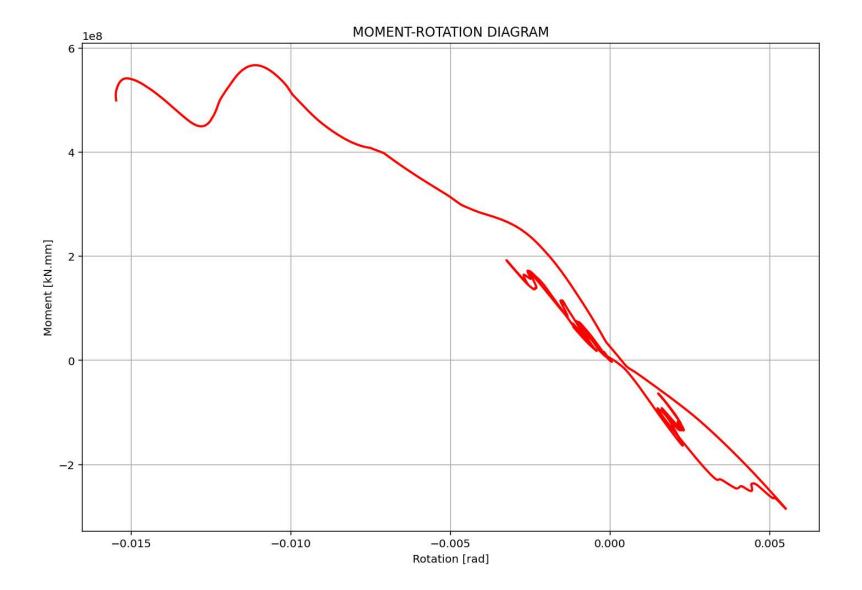




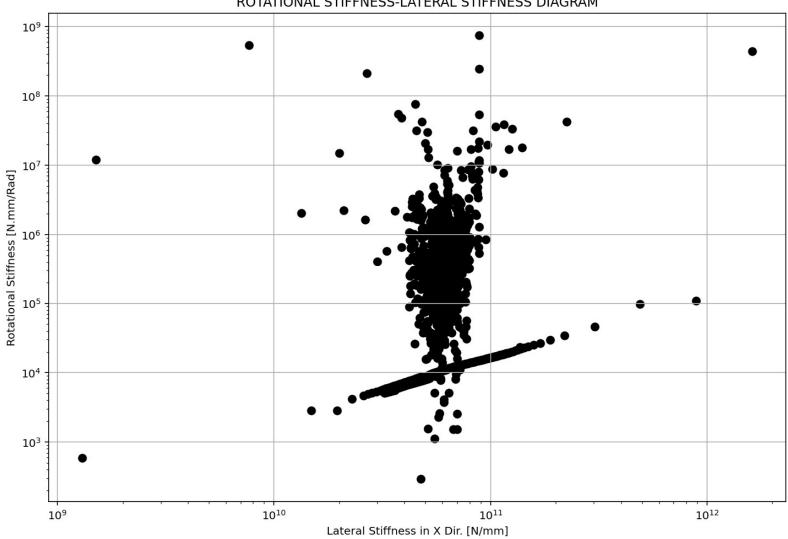




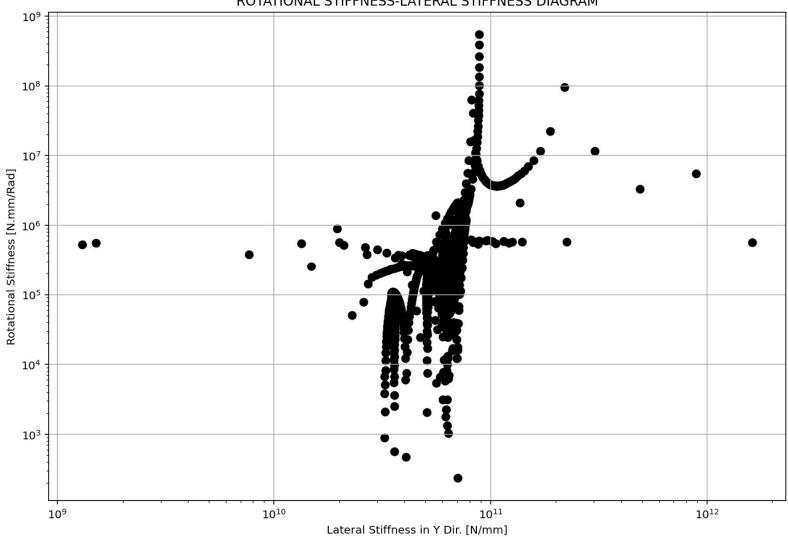




ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



Incorrect Damping Ratio Calculation

Time vs Displacement - MAX. ABS: 41.41926708055784 | ξ (Calculated): 1.00000e+02 %

