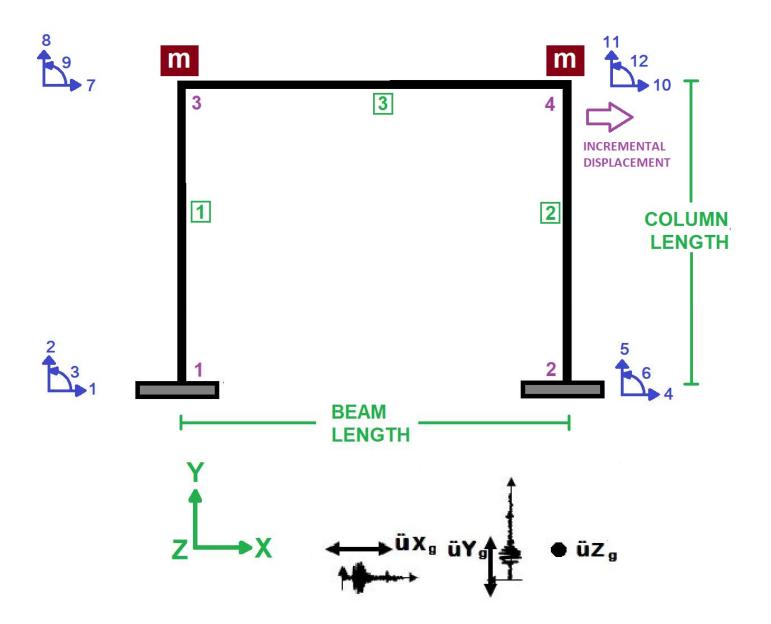
IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

SEISMIC ANALYSIS OF CONCRETE FRAME. EVALUATING STRAIN HARDENING AND ULTIMATE STRAIN CRITERIA USING OPENSEES

WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)





CORE AND COVER CONCRETE RELATION



WITHOUT HARDENING AND ULTIMATE STRAIN



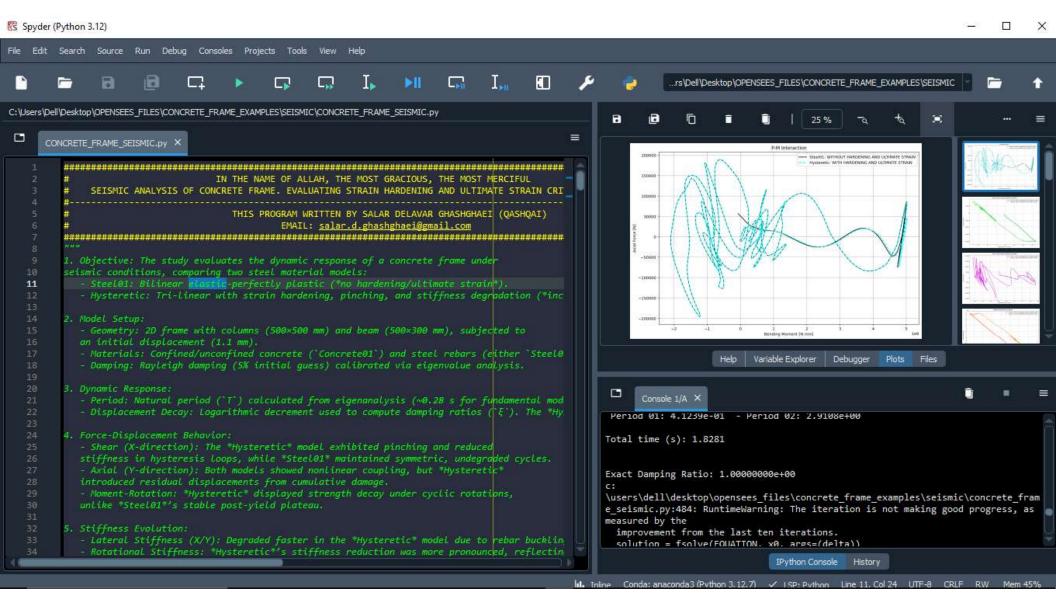
WITH HARDENING AND ULTIMATE STRAIN



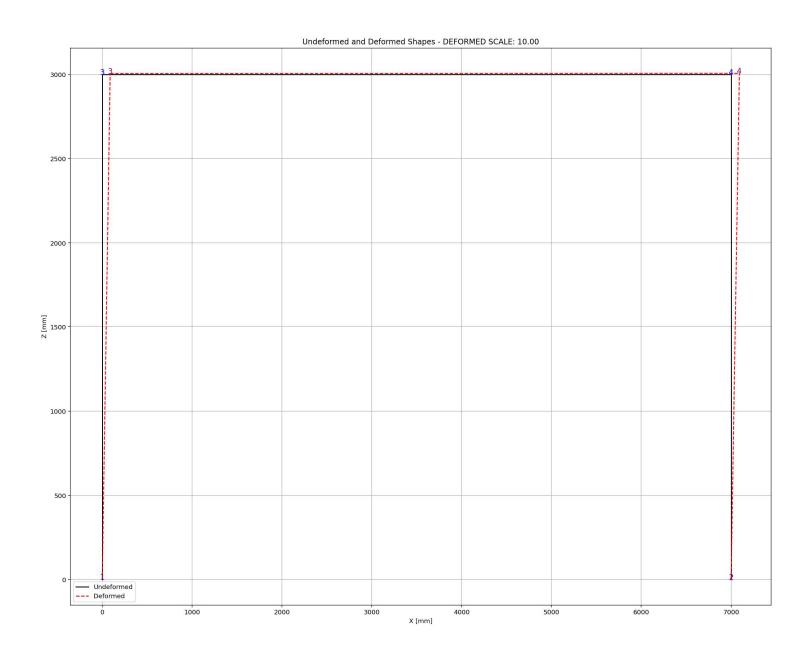
COLUMN SECTION

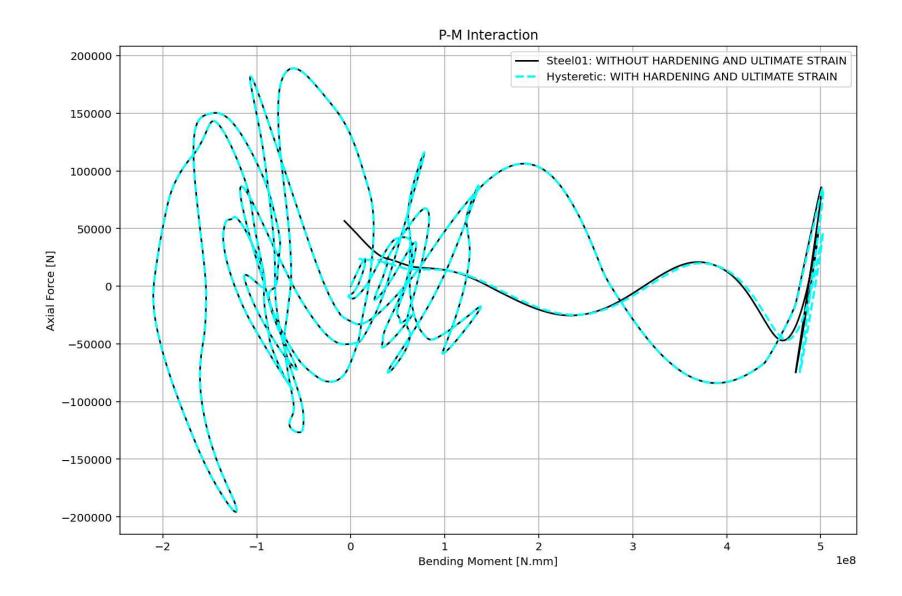


BEAM SECTION

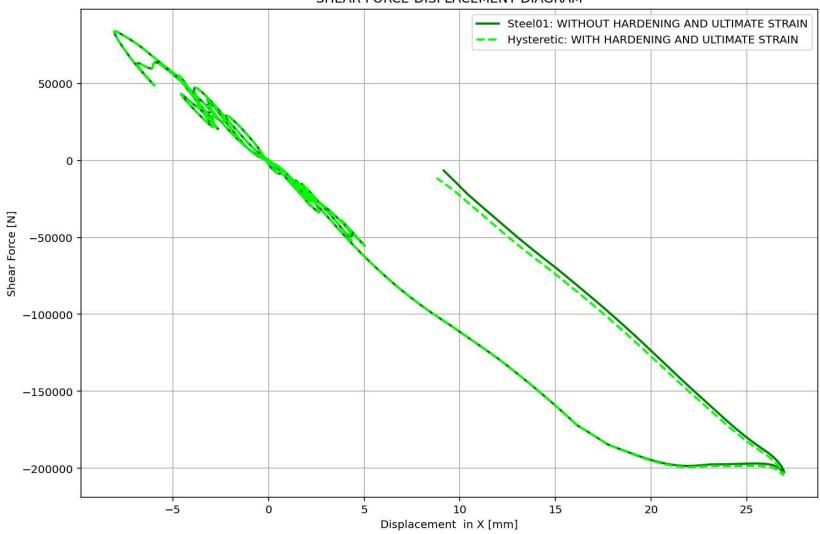


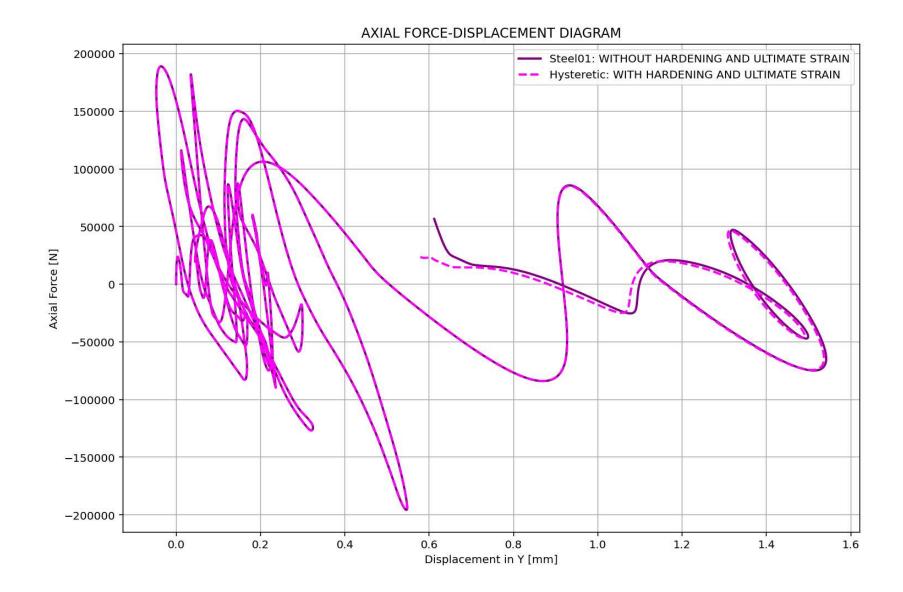
NONLINEAR DYNAMIC ANALYSIS

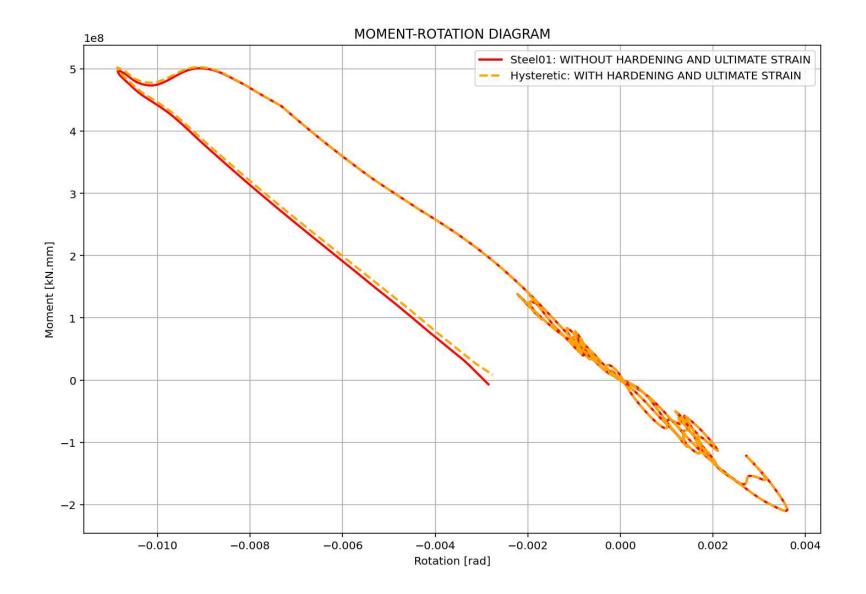




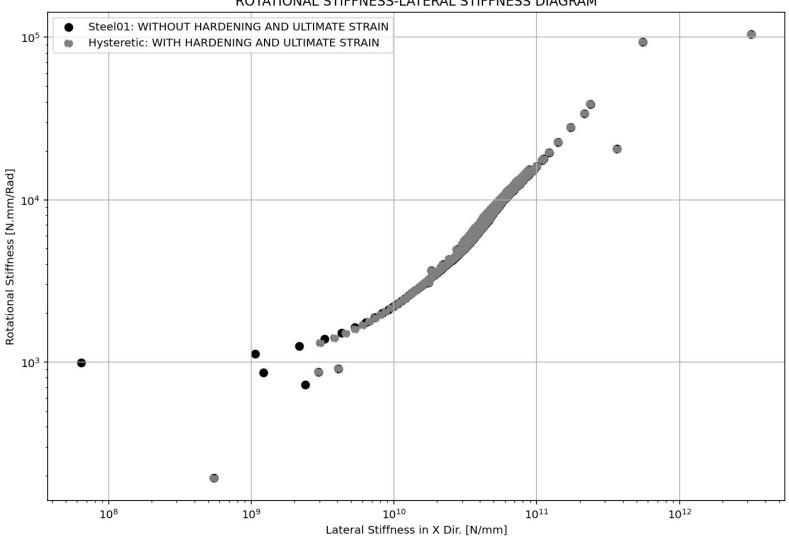
SHEAR FORCE-DISPLACEMENT DIAGRAM







ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM

