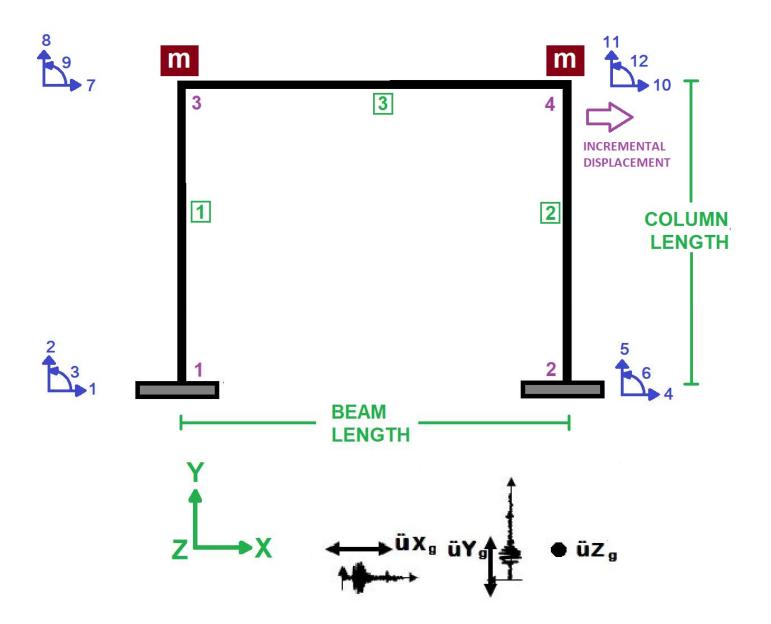
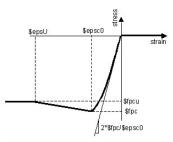
IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

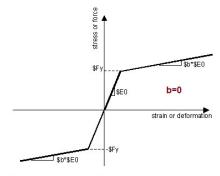
ASSESSMENTS OF THE STRUCTURAL DUCTILITY DAMAGE INDEX OF CONCRETE FRAME USING OPENSEES

WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)

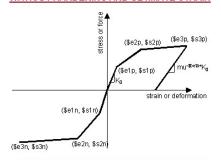




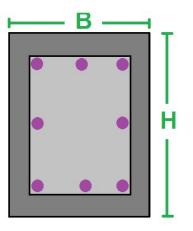
CORE AND COVER CONCRETE REALTION



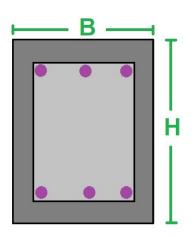
WITHOUT HARDENING AND ULTIMATE STRAIN



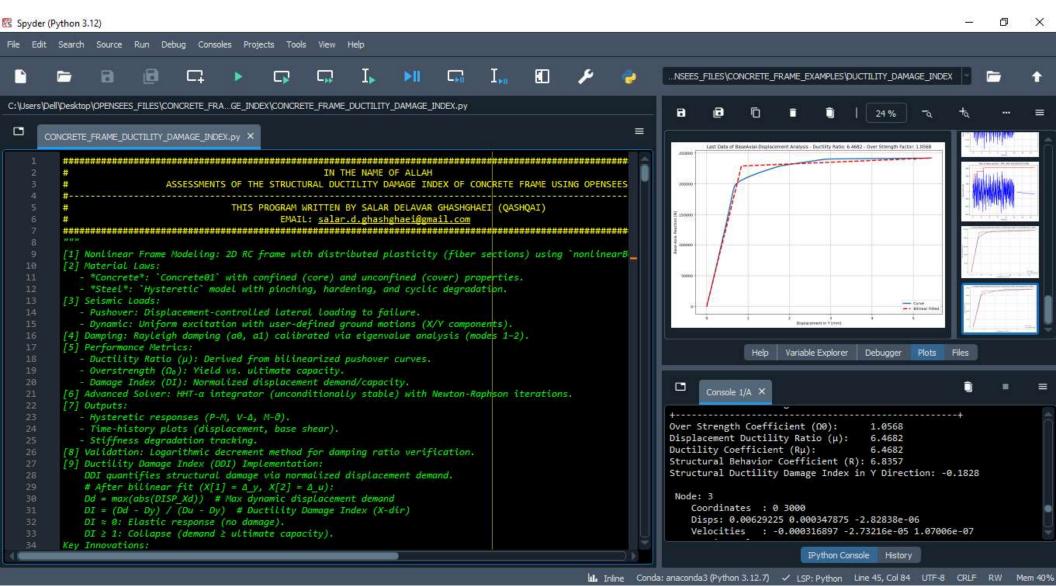
WITH HARDENING AND ULTIMATE STRAIN



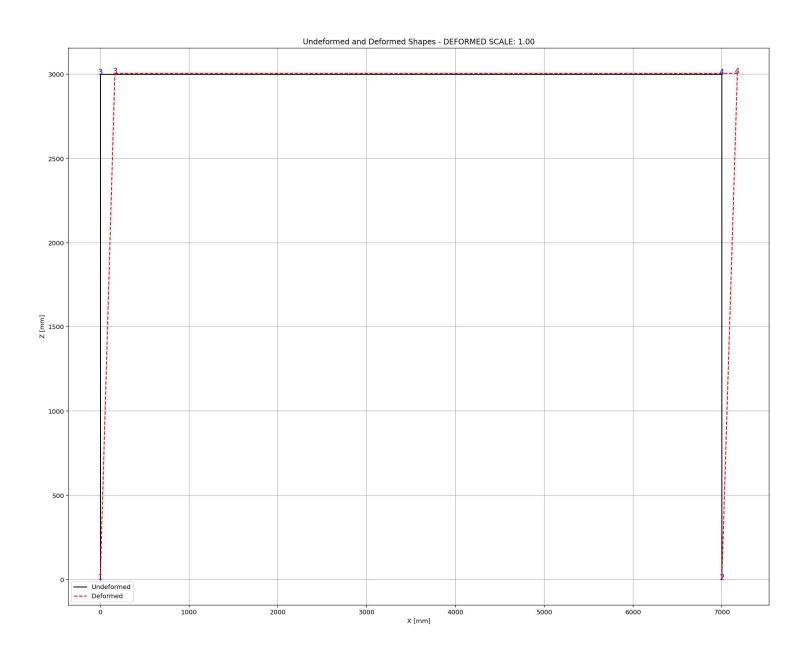
COLUMN SECTION

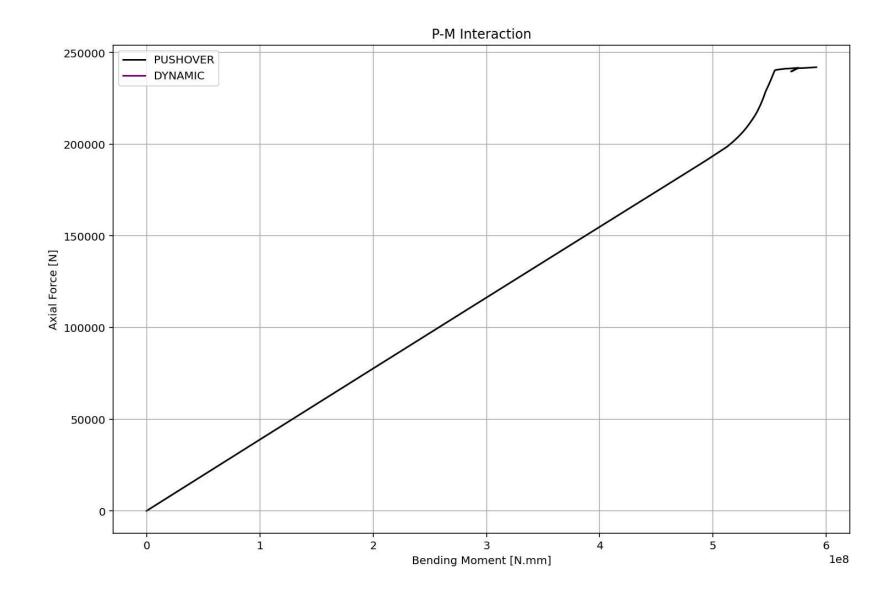


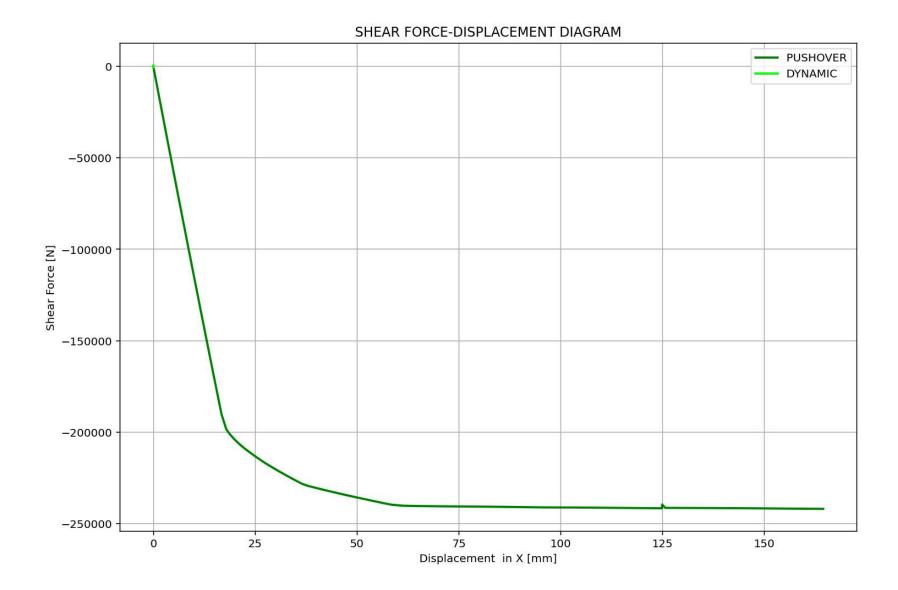
BEAM SECTION

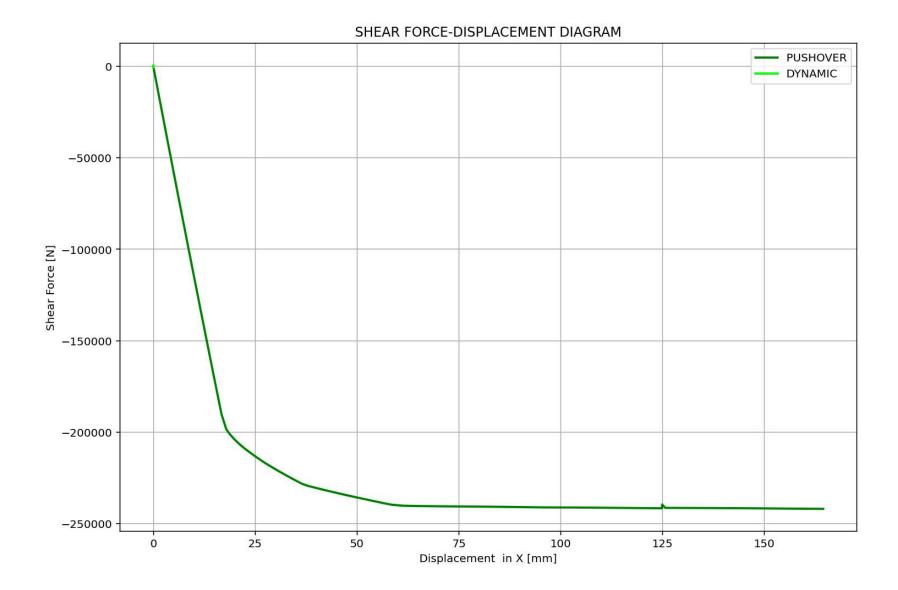


NONLINEAR STATIC ANALYSIS (PUSHOVER)

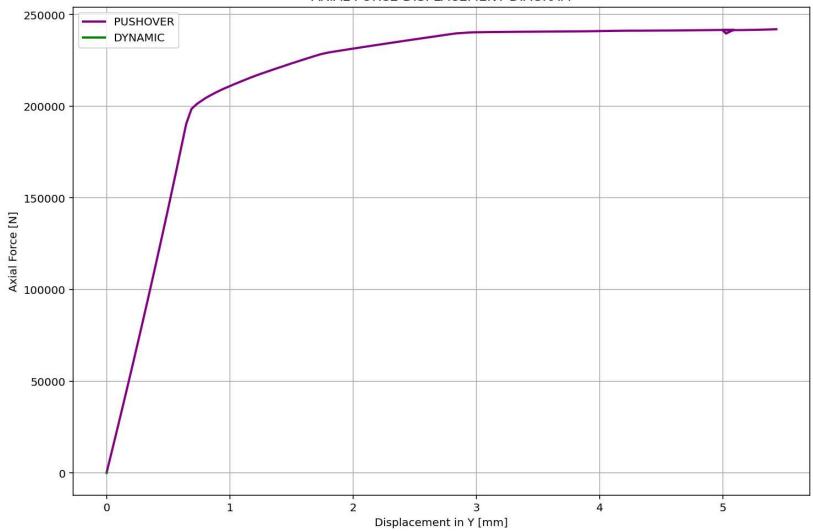


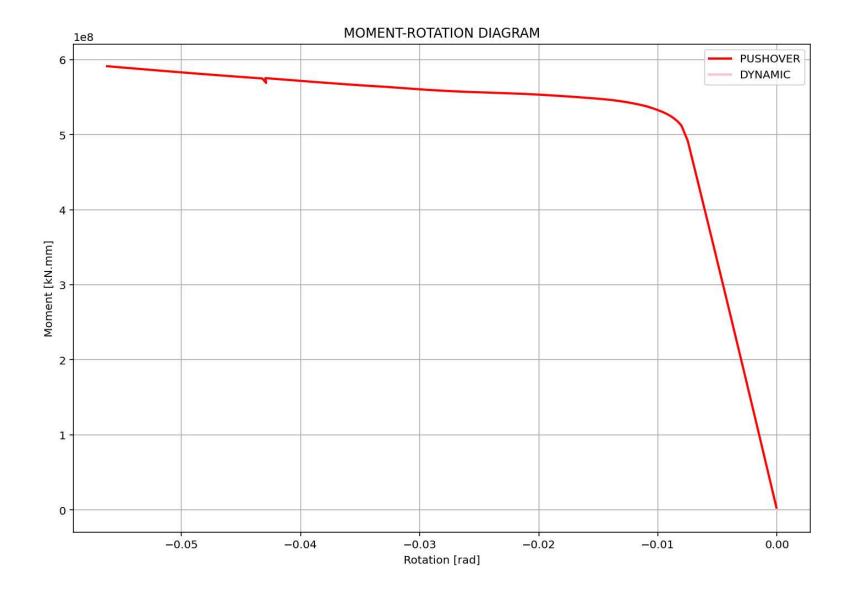




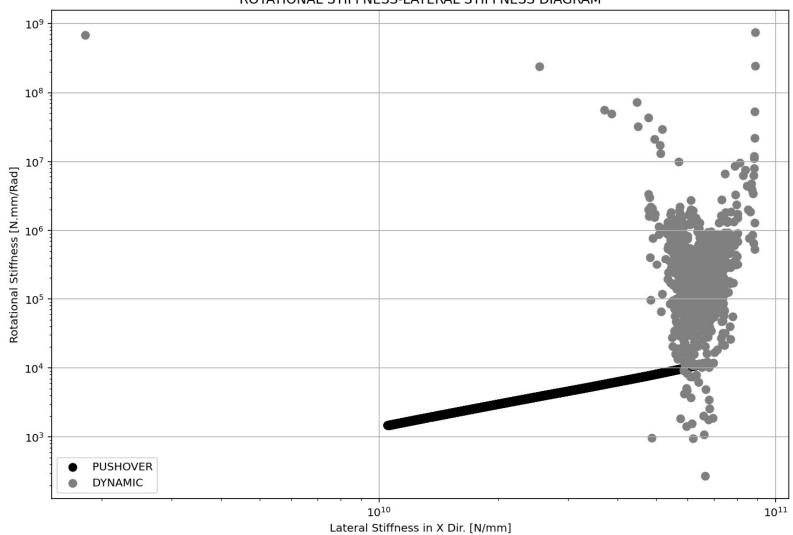


AXIAL FORCE-DISPLACEMENT DIAGRAM

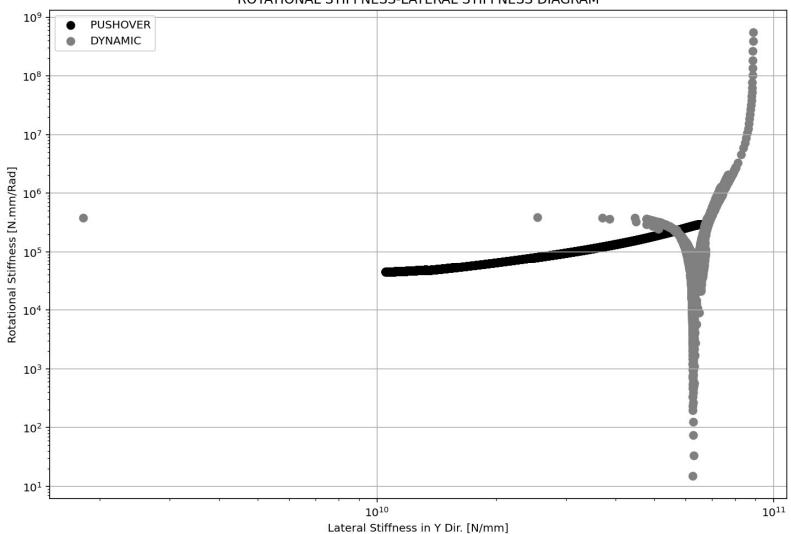




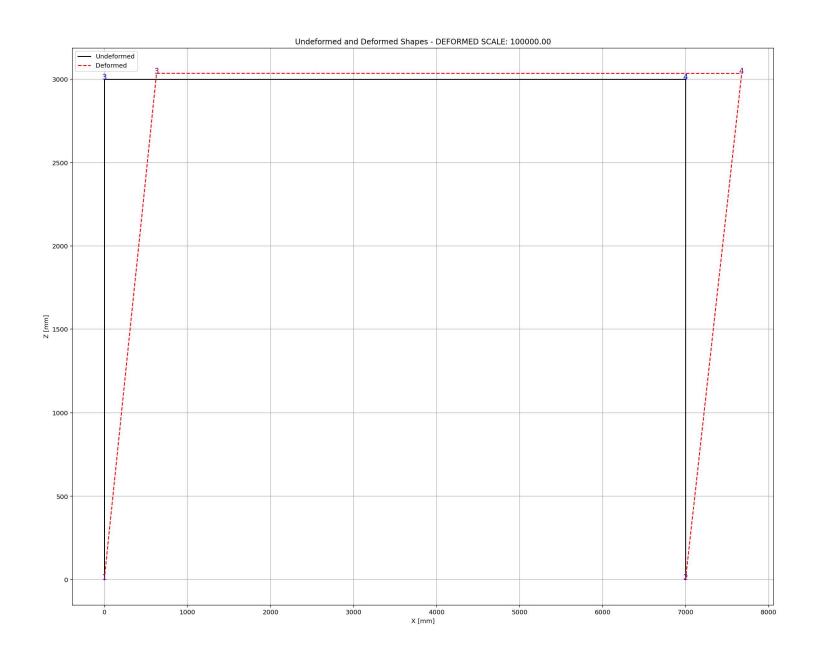
ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



NONLINEAR DYNAMIC ANALYSIS



Time vs Displacement - MAX. ABS: 0.0063555360038611815 | ξ (Calculated): 3.04716e+00 %

