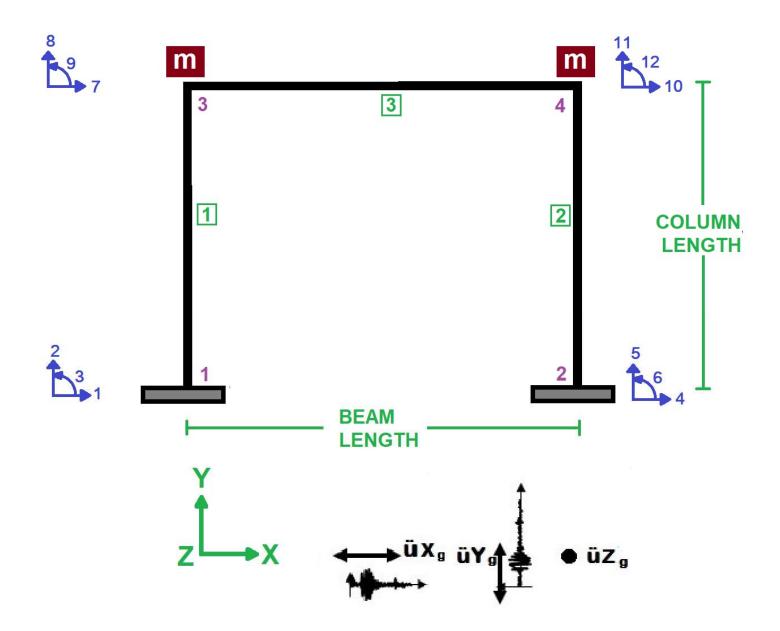
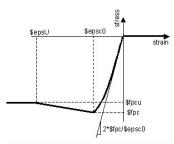
IN THE NAME OF ALLAH

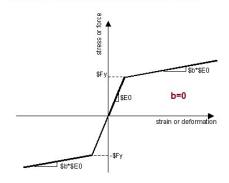
SEISMIC RESPONSE SPECTRUM ANALYSIS OF CONCRETE FRAME USING OPENSEES

WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)

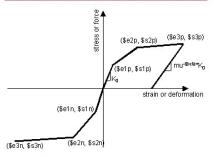




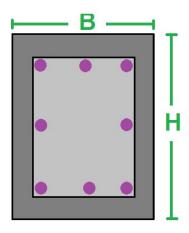
CORE AND COVER CONCRETE REALTION



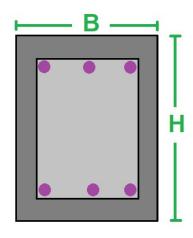
WITHOUT HARDENING AND ULTIMATE STRAIN



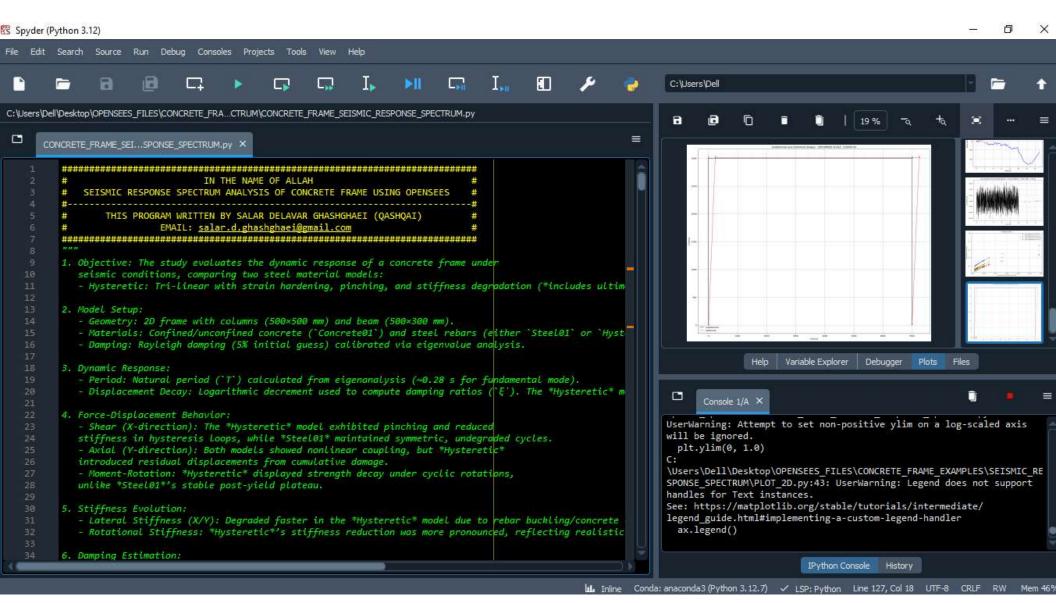
WITH HARDENING AND ULTIMATE STRAIN

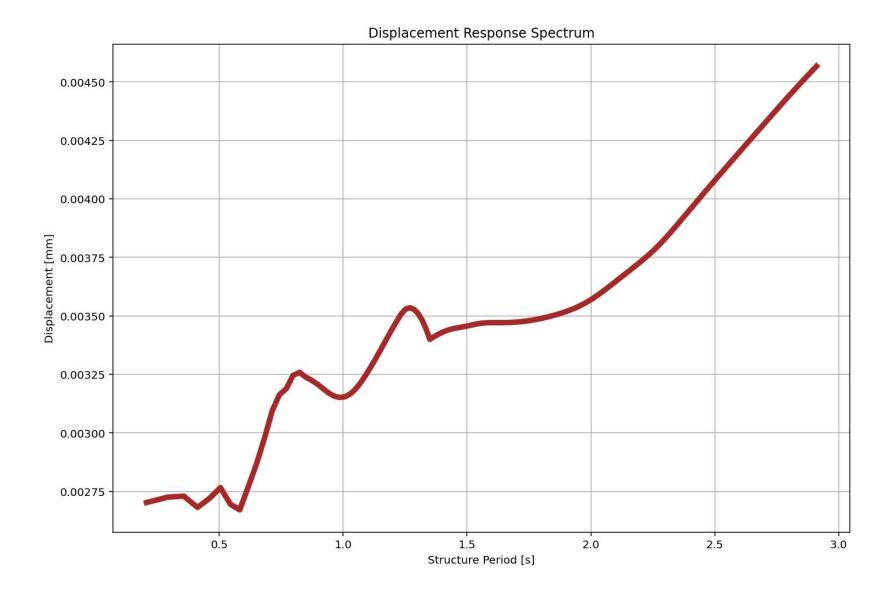


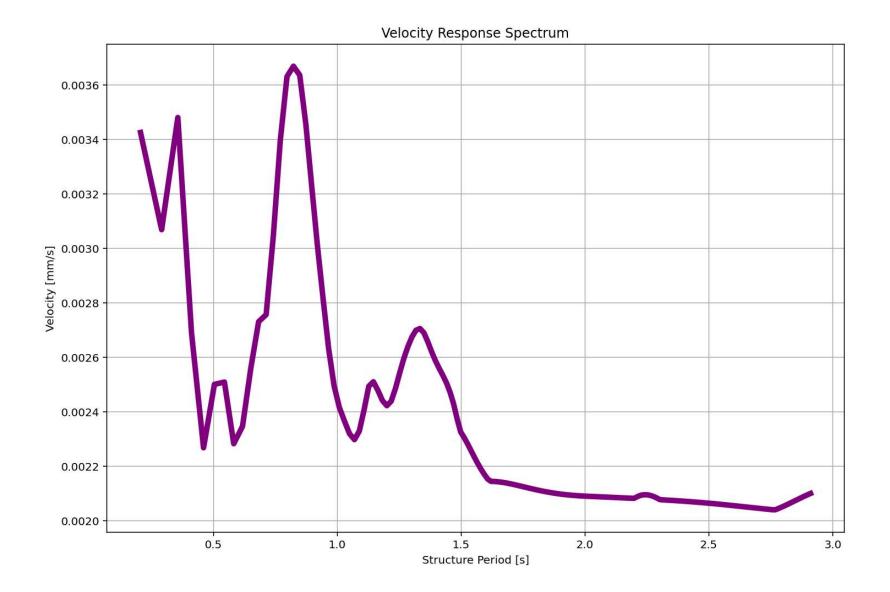
COLUMN SECTION

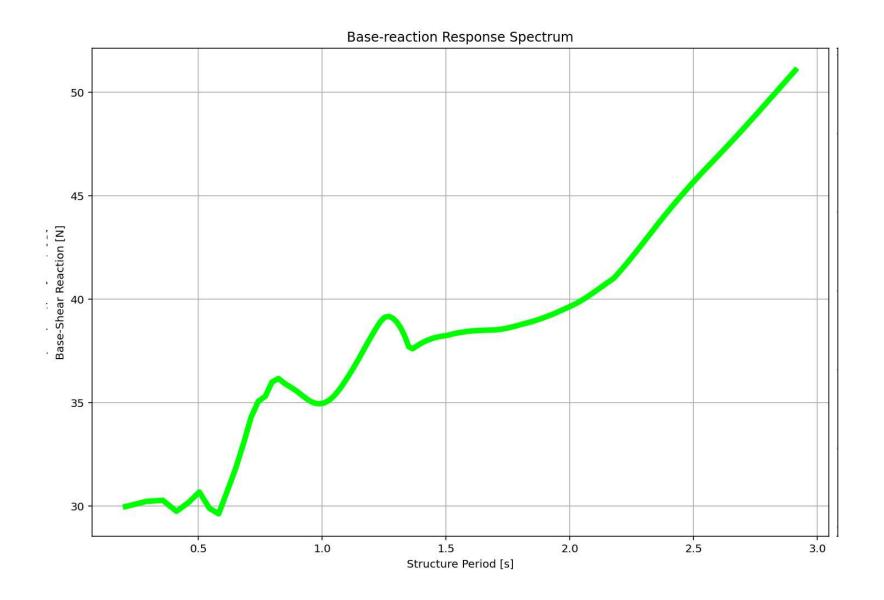


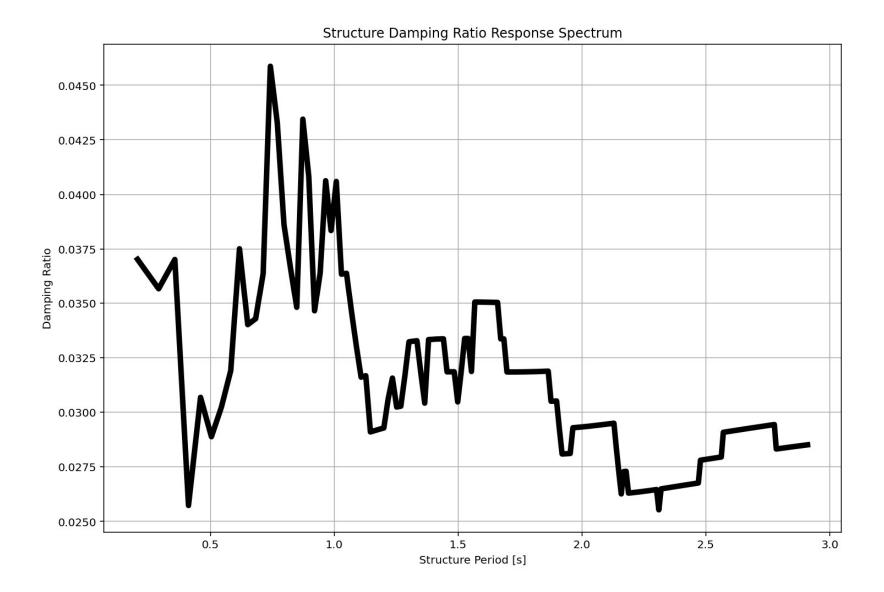
BEAM SECTION

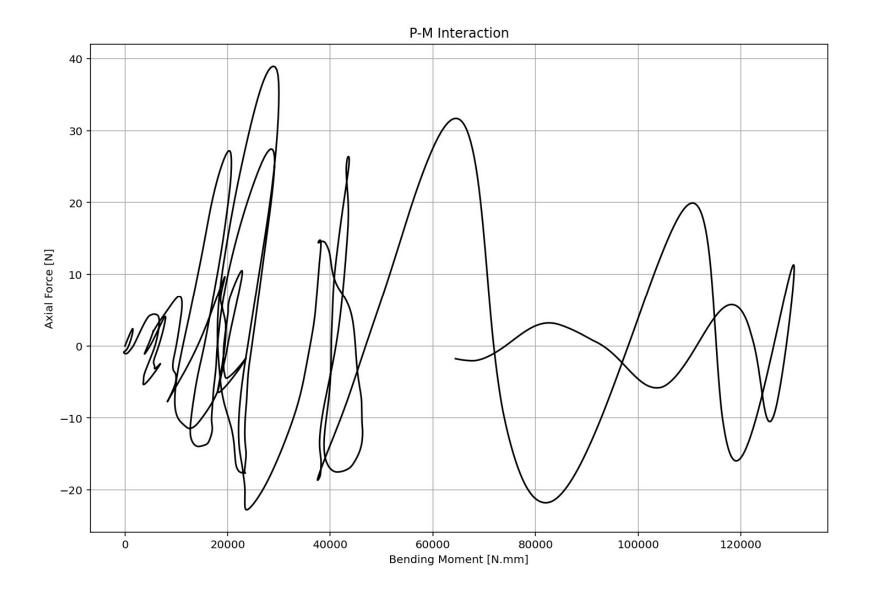


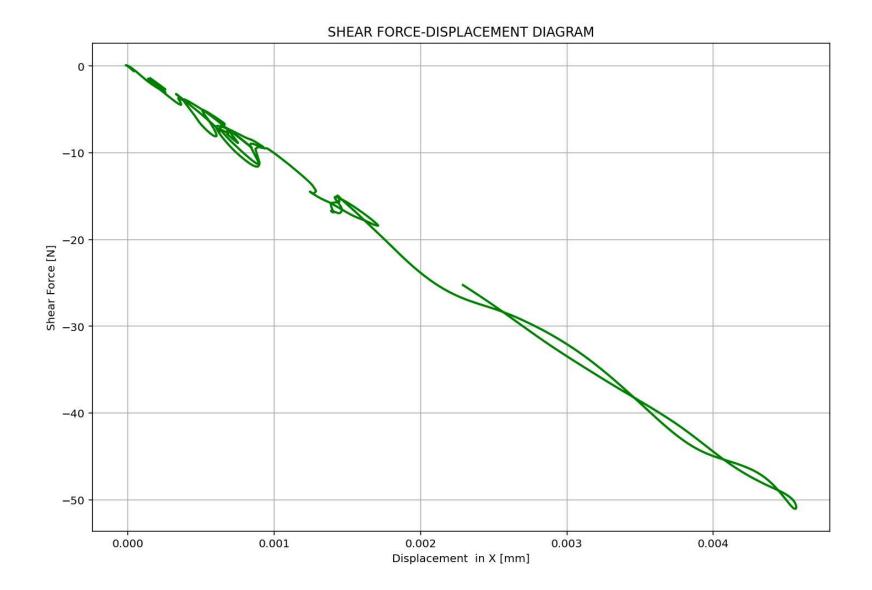


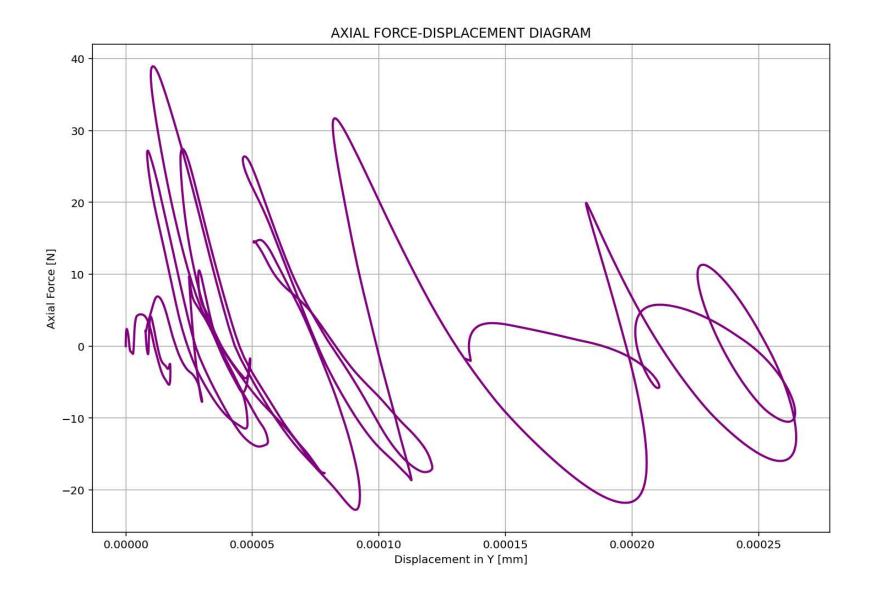


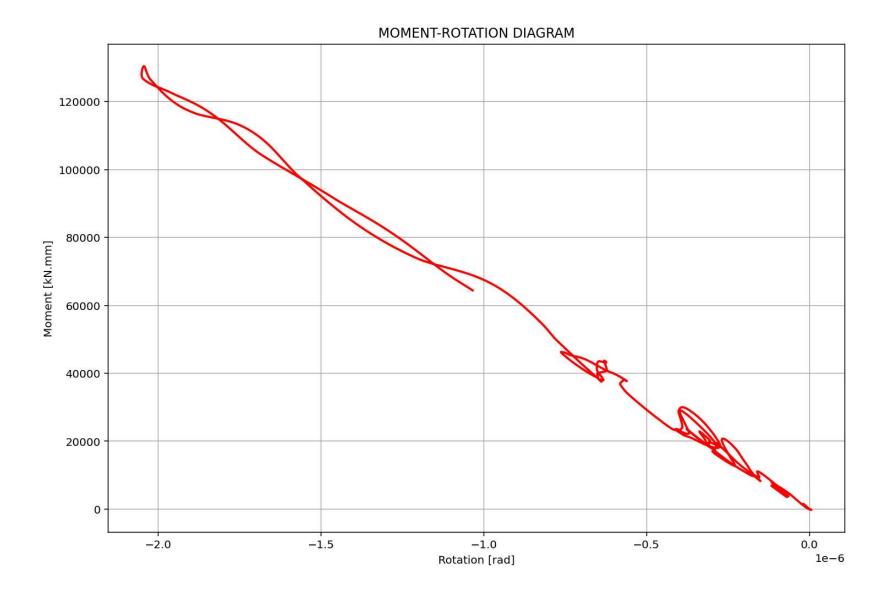




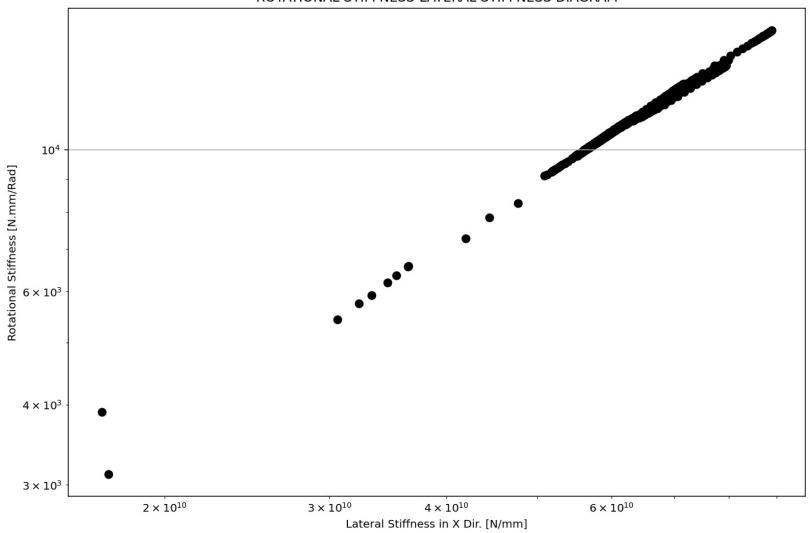








ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



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