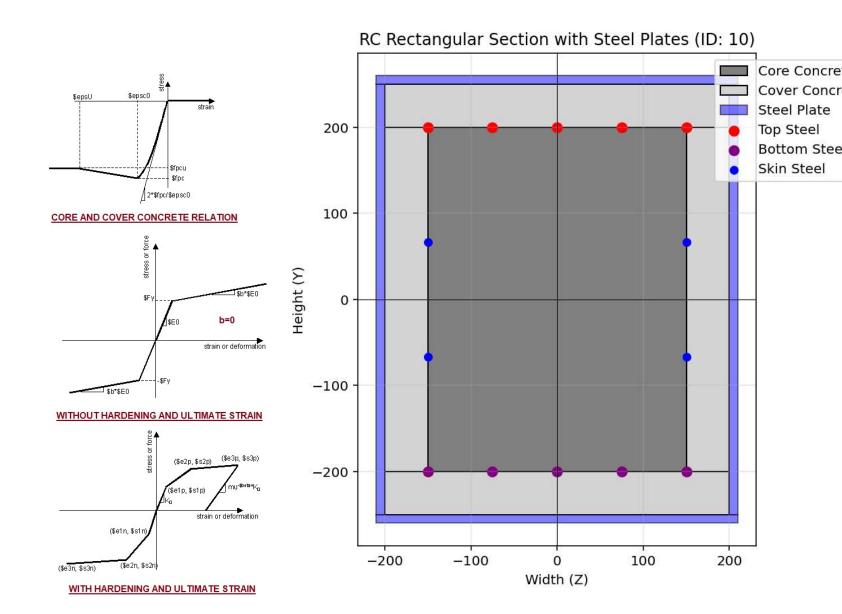
IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

OPTIMIZATION OF PLATE THICKNESS WITH COMPARATIVE ANALYSIS OF AXIAL FORCE-MOMENT (P-M) INTERACTION IN CONFINED REINFORCED CONCRETE WITH PLATE COMPOSITE SECTIONS: **EVALUATING STRAIN HARDENING AND ULTIMATE STRAIN CRITERIA USING OPENSEES**

WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)



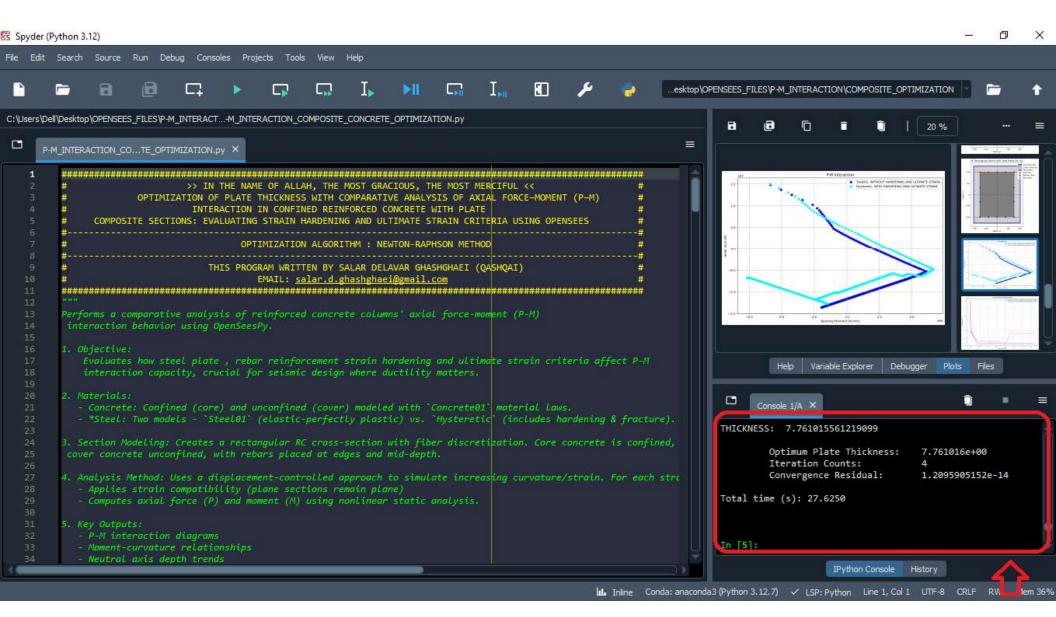


PLATE THICKNESS: 1.00000000e+01

F: 1036871.385868473 Fmin: 1036866.7435809877 Fmax: 1036876.0281560402 DF: 464228.75262796873 DX: 2.2335354714649007

IT: 1 - RESIDUAL: 2.2335354714649007 - PLATE THICKNESS: 10

PLATE THICKNESS: 7.76646453e+00

F: 2517.2699756994843 Fmin: 2512.650228900835 Fmax: 2521.8897225987166 DF: 461974.6848940849 DX: 0.005448934883253633

IT: 2 - RESIDUAL: 0.005448934883253633 - PLATE THICKNESS: 7.766464528535099

PLATE THICKNESS: 7.76101559e+00

F: 0.014982929453253746 Fmin: -4.6047088745981455 Fmax: 4.63467482291162 DF: 461969.1848754882 DX: 3.2432746477001504e-08

IT: 3 - RESIDUAL: 3.2432746477001504e-08 - PLATE THICKNESS: 7.7610155936518455

PLATE THICKNESS: 7.76101556e+00

F: 5.587935447692871e-09 Fmin: -4.619691805914044 Fmax: 4.619691899046302 DF: 461969.18524801725 DX: 1.2095905151537061e-14

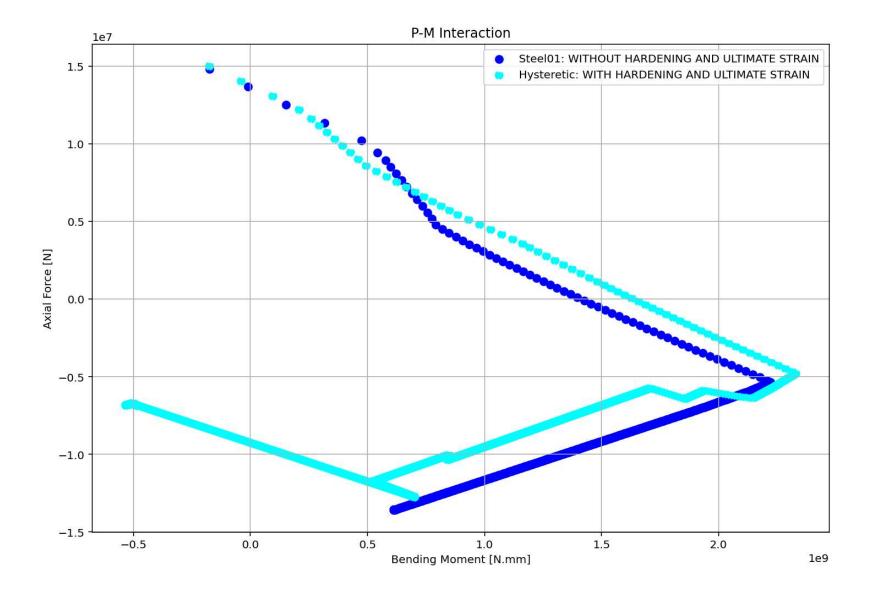
IT: 4 - RESIDUAL: 1.2095905151537061e-14 - PLATE THICKNESS: 7.761015561219099

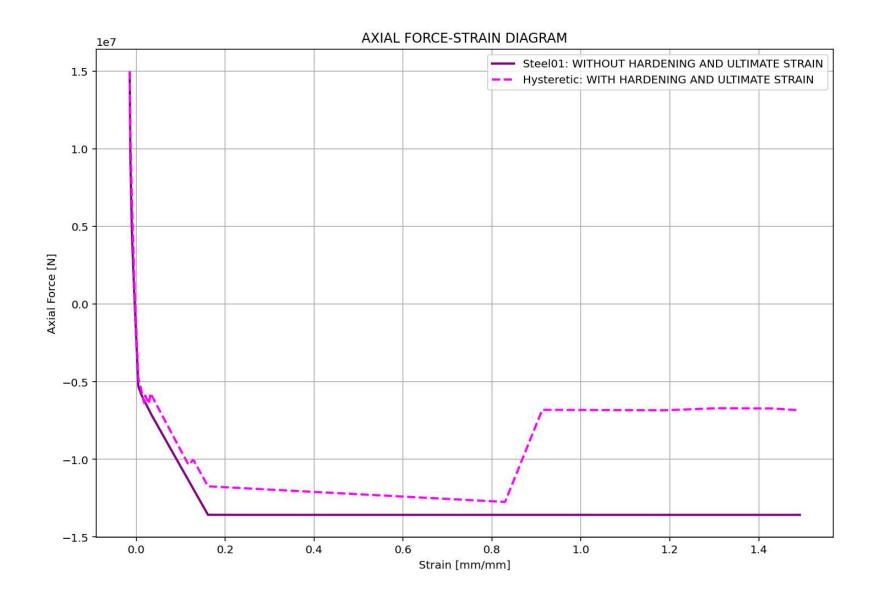
Optimum Plate Thickness: 7.761016e+00

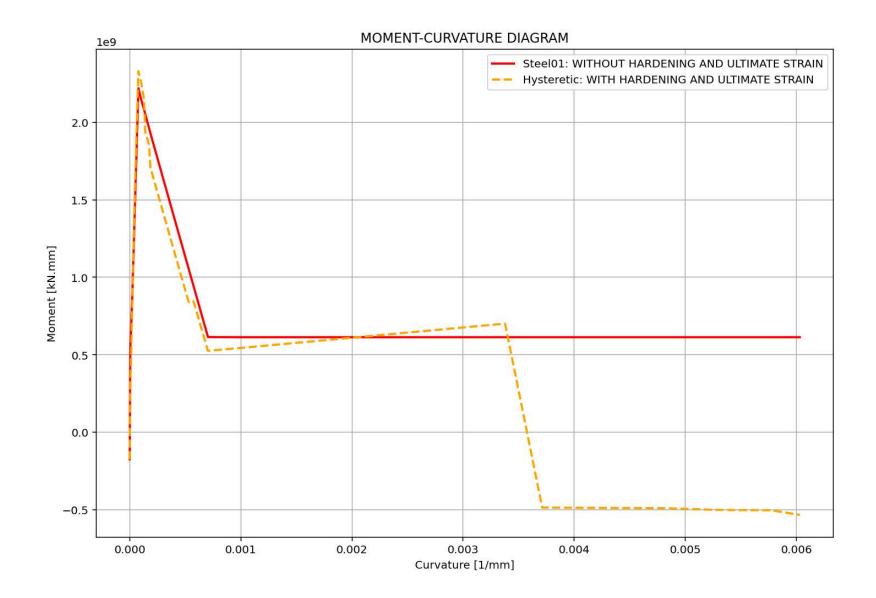
Iteration Counts: 4

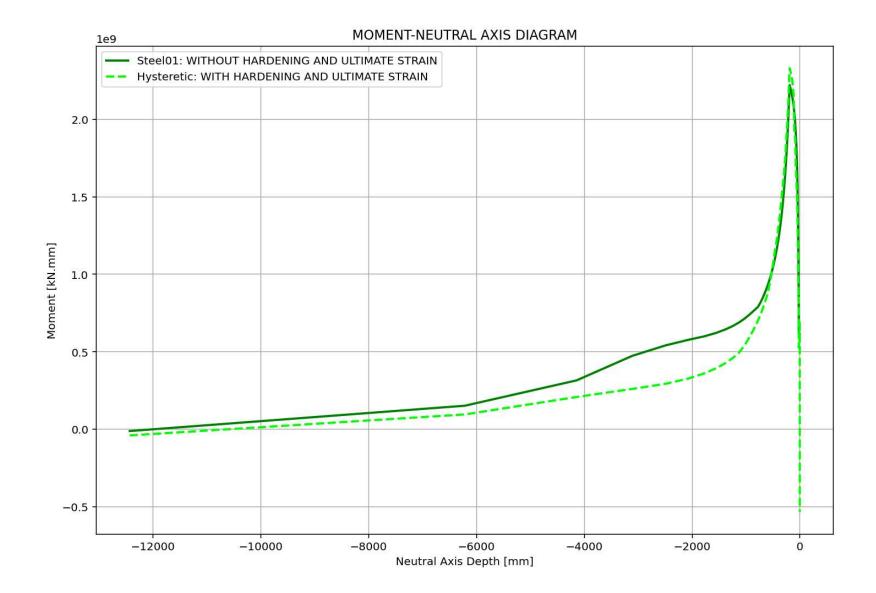
Convergence Residual: 1.2095905152e-14

Total time (s): 27.6250

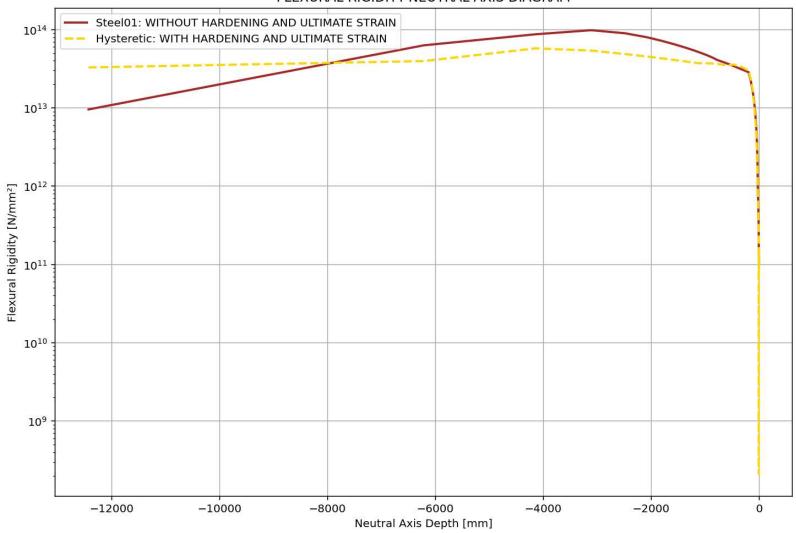








FLEXURAL RIGIDITY-NEUTRAL AXIS DIAGRAM



FLEXURAL RIGIDITY-AXIAL RIGIDITY DIAGRAM

