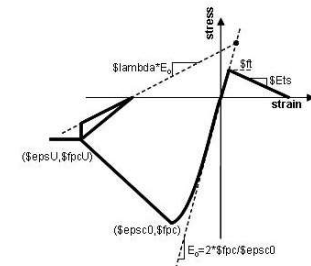
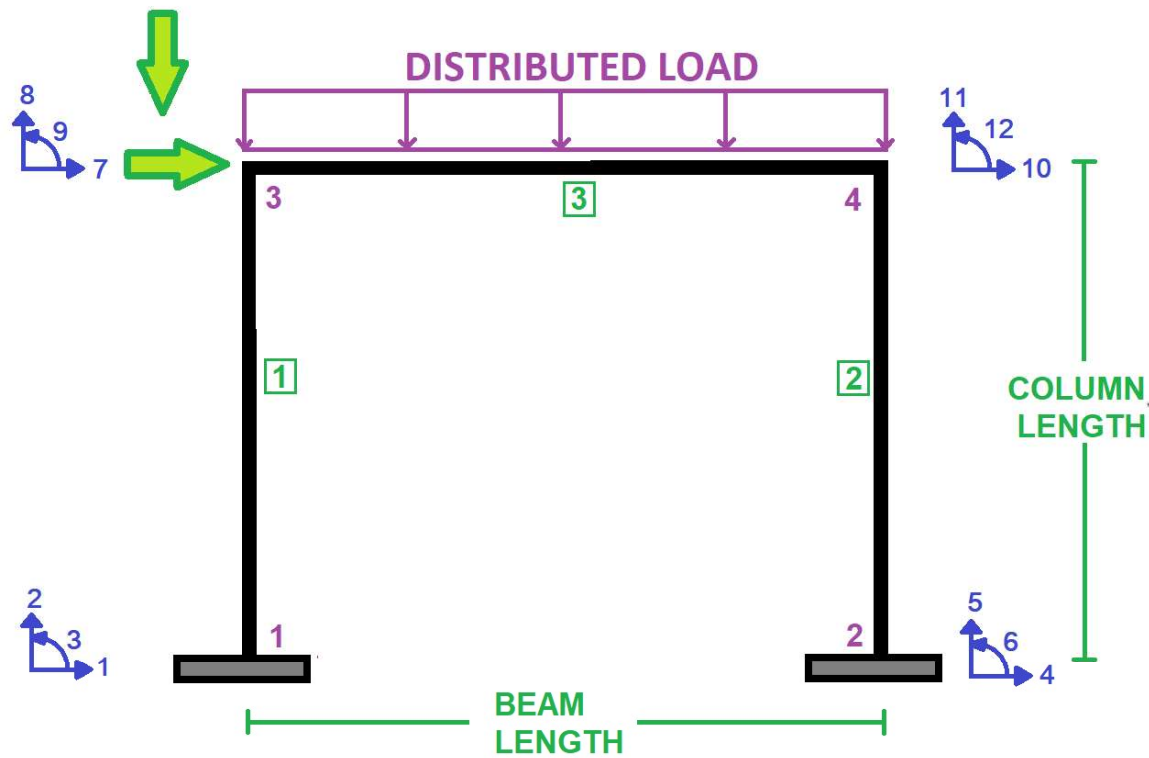


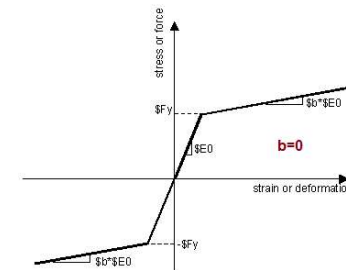
IN THE NAME OF ALLAH

**SENSITIVITY ANALYSIS OF CONCRETE FRAME BY CHANGING
COLUMN REBAR DIAMETER AND COLUMN SECTION DEPTH.
ANALYZING CREEP AND SHRINKAGE OF A CONCRETE FRAME.
EVALUATING STRAIN HARDENING USING OPENSEES
AND CALCULATE STRUCTURAL BEHAVIOR COEFFICIENT**

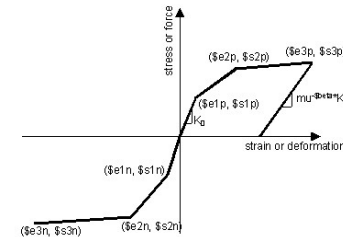
WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)



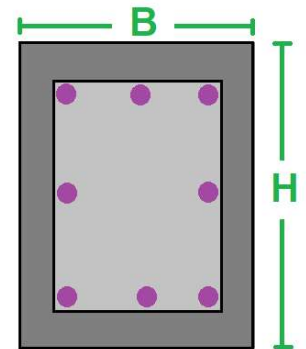
CORE AND COVER CONCRETE REALTION



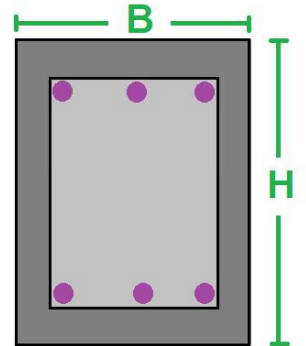
WITHOUT HARDENING AND ULTIMATE S STRAIN



WITH HARDENING AND ULTIMATE STRAIN

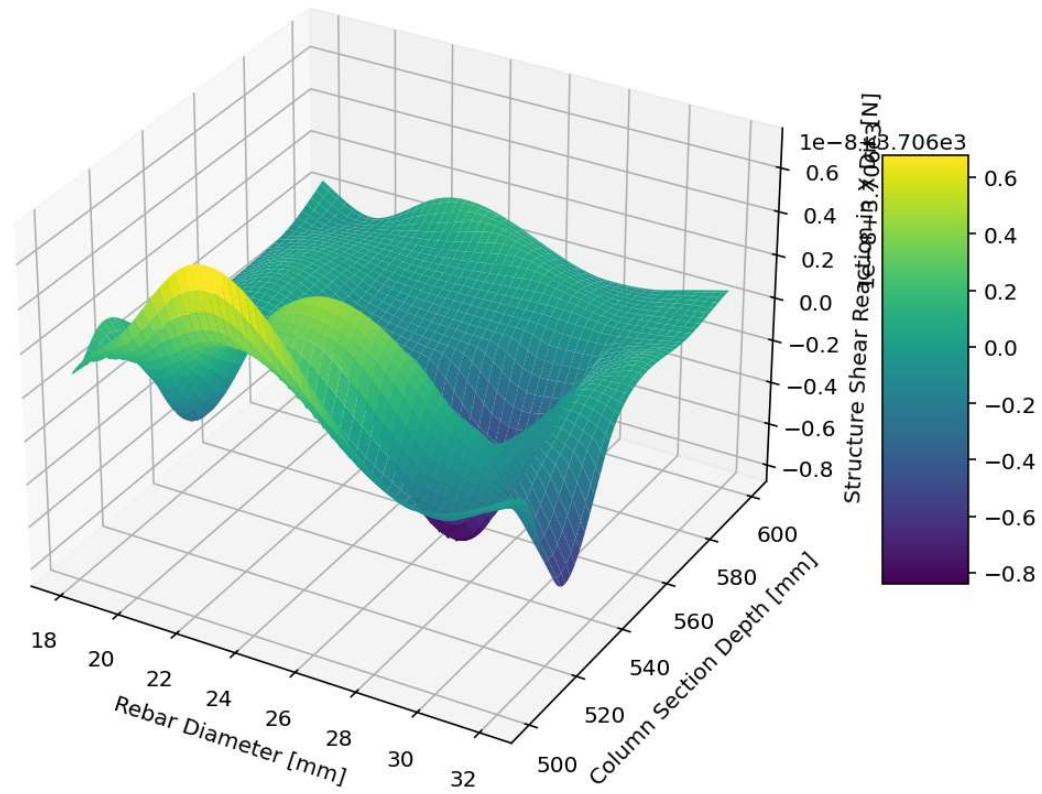


COLUMN SECTION

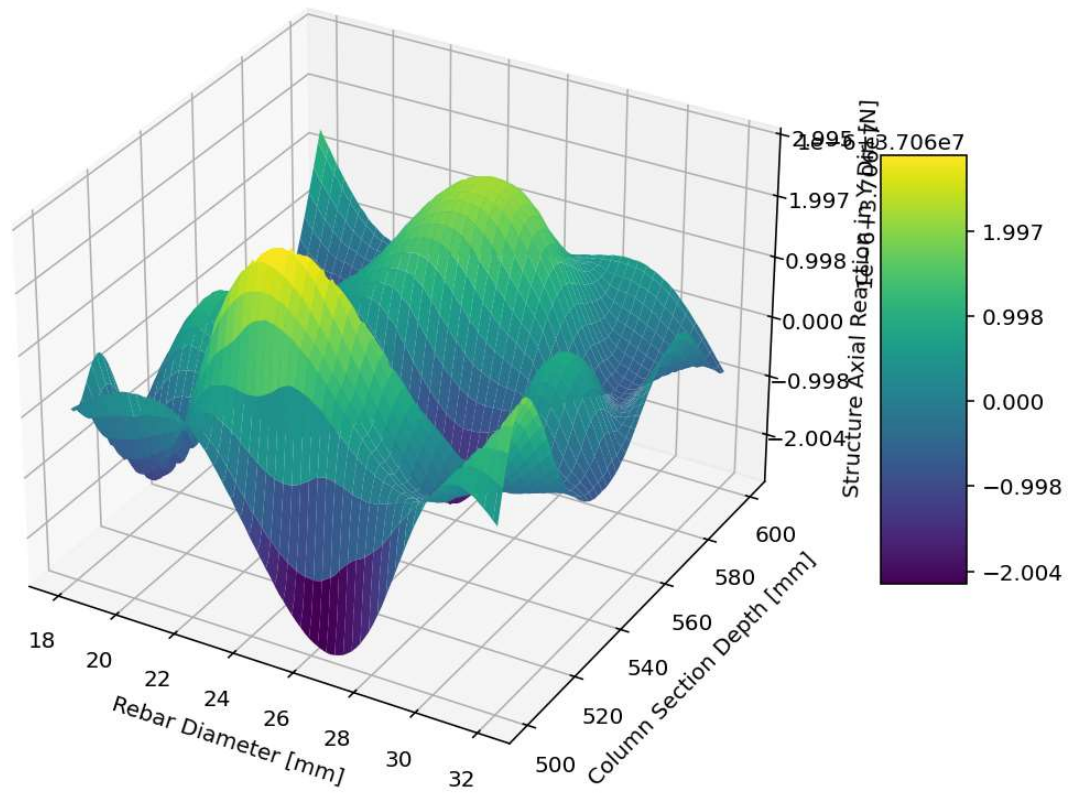


BEAM SECTION

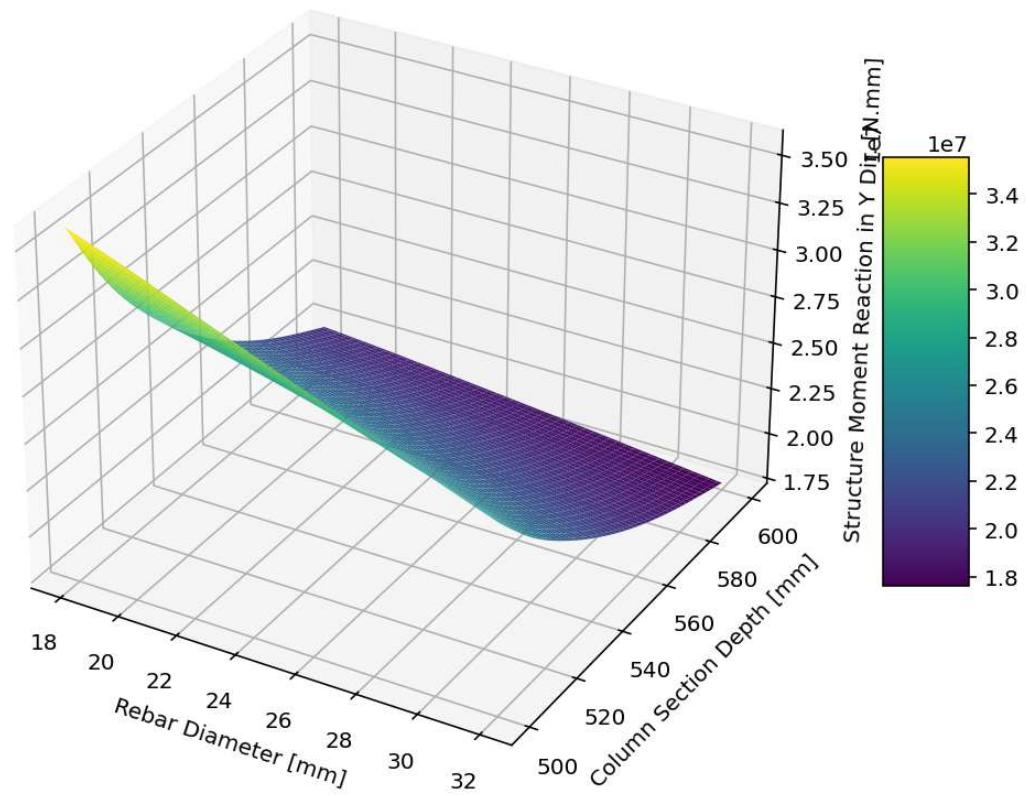
3D Contour Plot of Structure Shear Reaction in X Dir. [N]



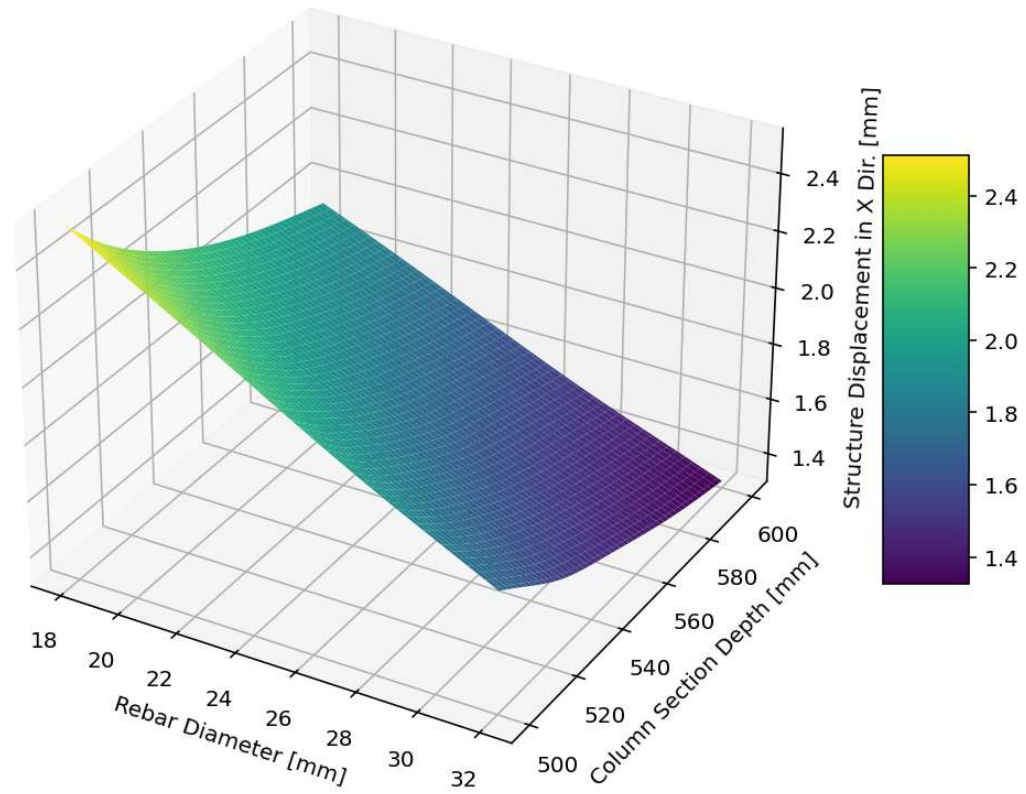
3D Contour Plot of Structure Axial Reaction in Y Dir. [N]



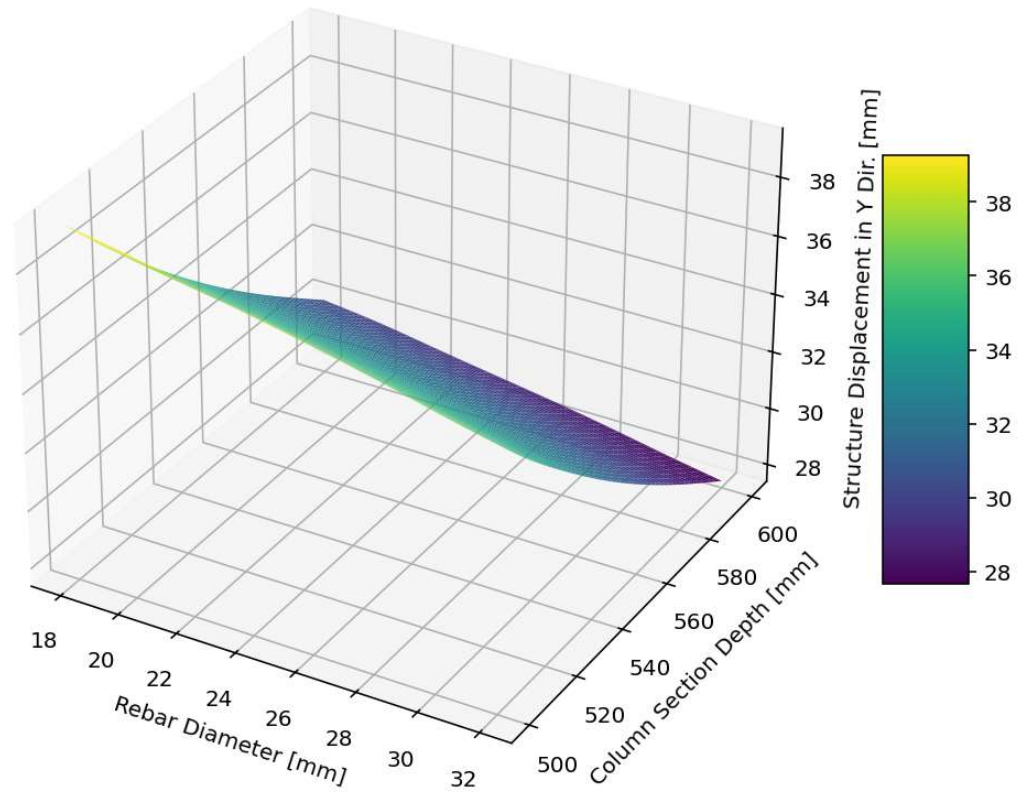
3D Contour Plot of Structure Moment Reaction in Y Dir. [N.mm]



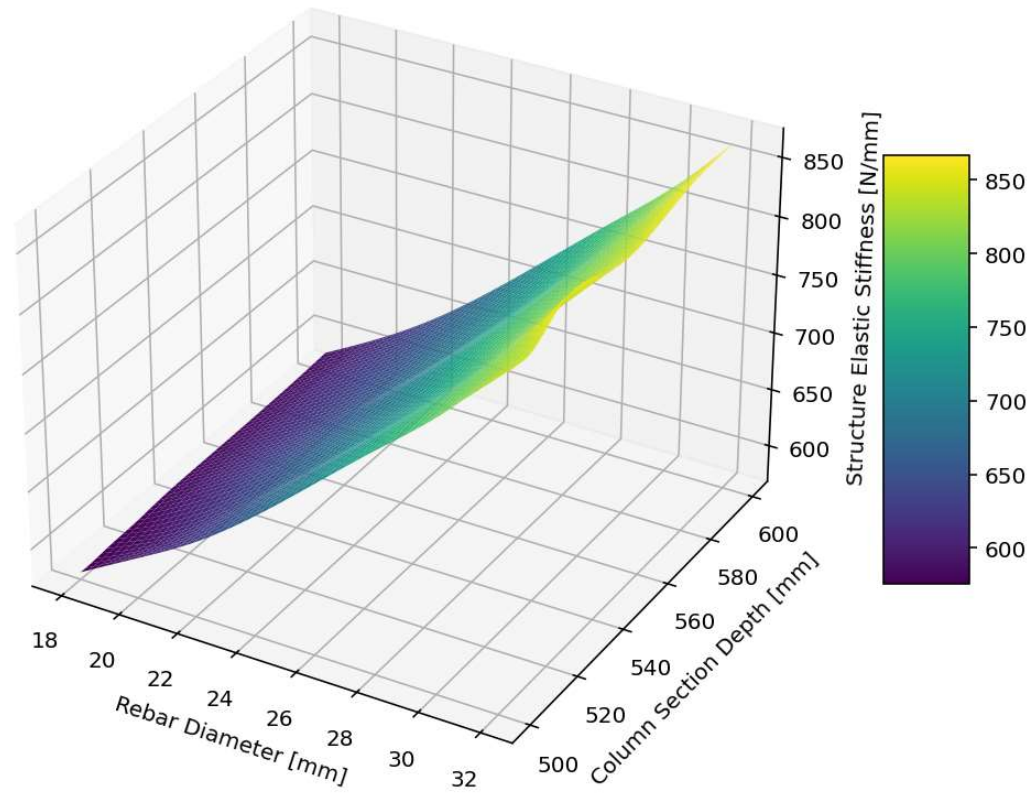
3D Contour Plot of Structure Displacement in X Dir. [mm]



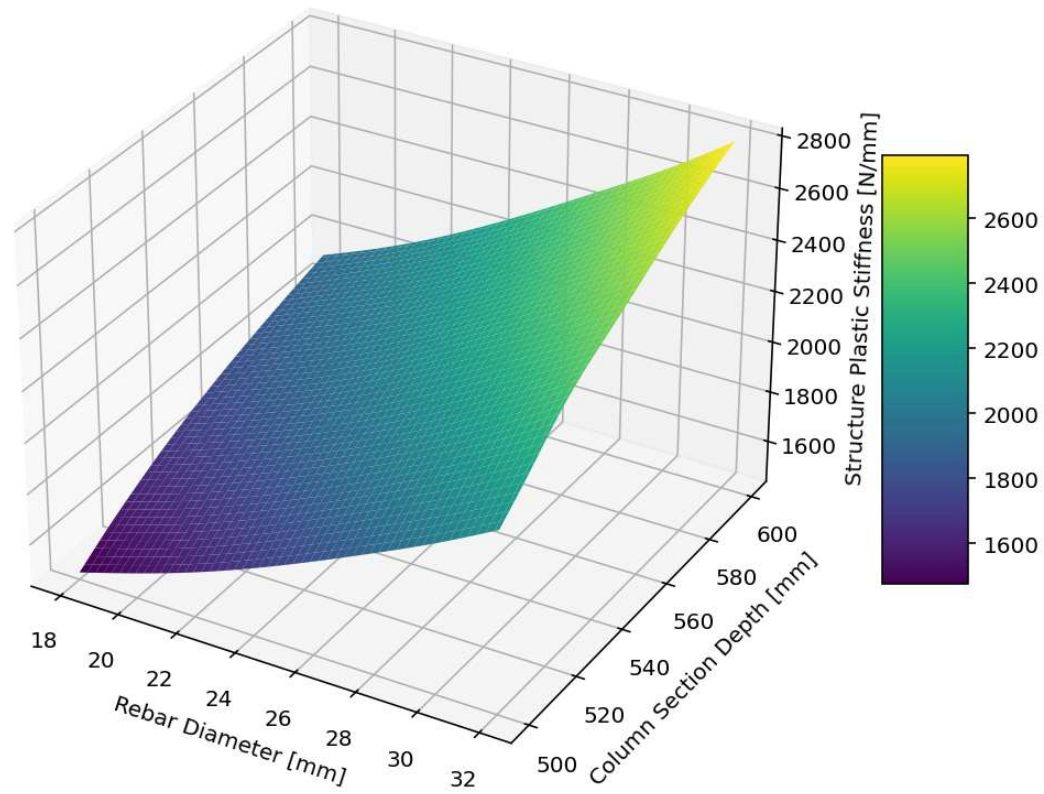
3D Contour Plot of Structure Displacement in Y Dir. [mm]



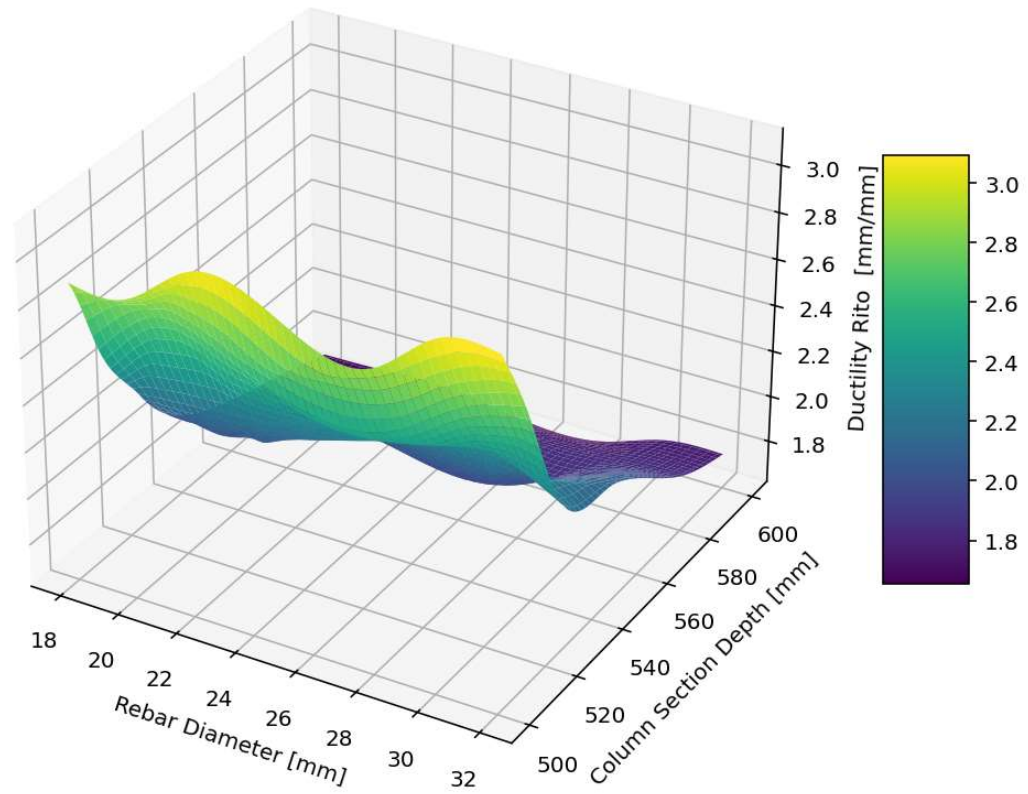
3D Contour Plot of Structure Elastic Stiffness [N/mm]



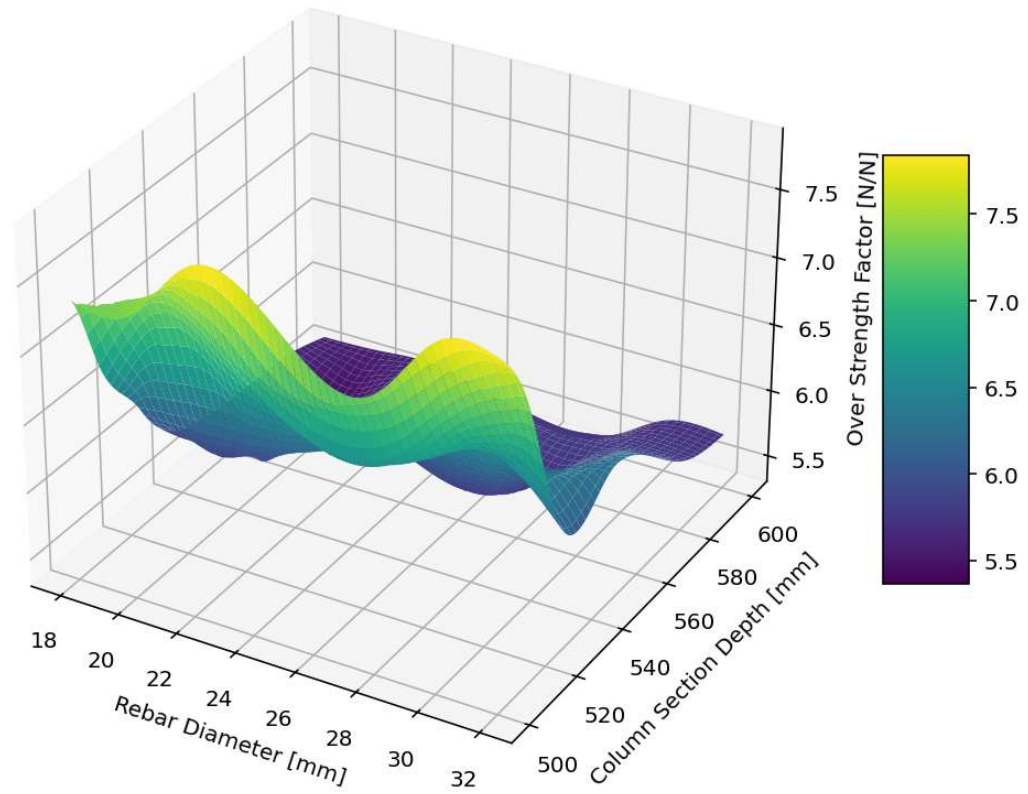
3D Contour Plot of Structure Plastic Stiffness [N/mm]



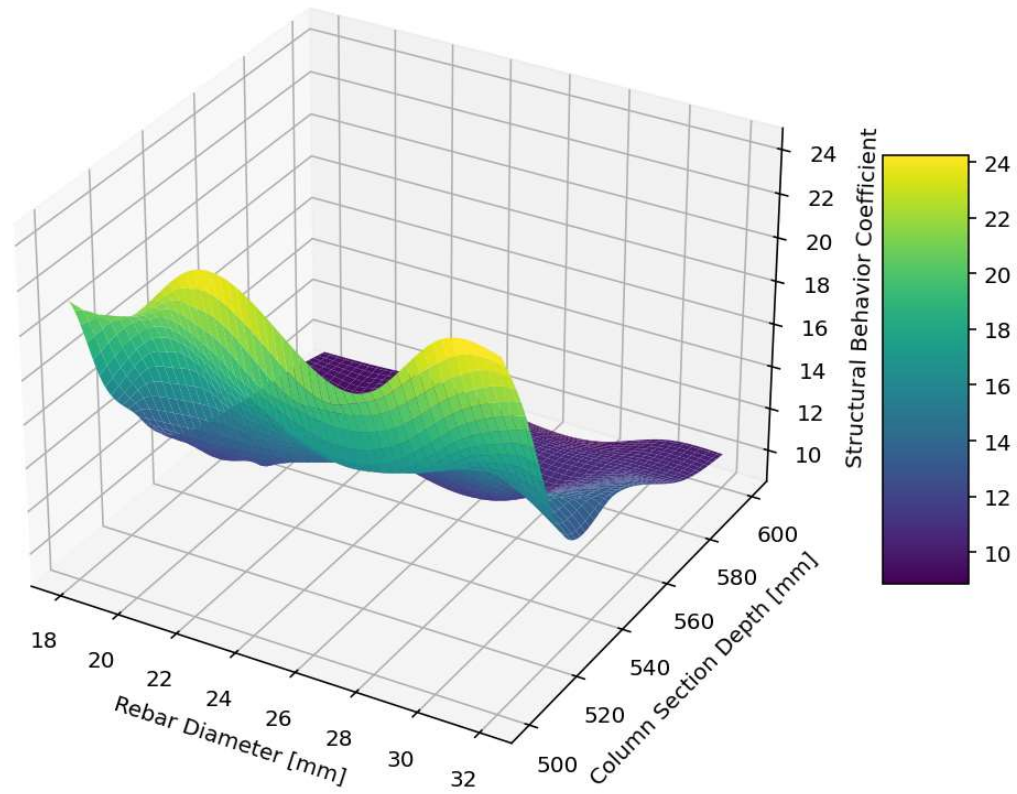
3D Contour Plot of Ductility Rito [mm/mm]

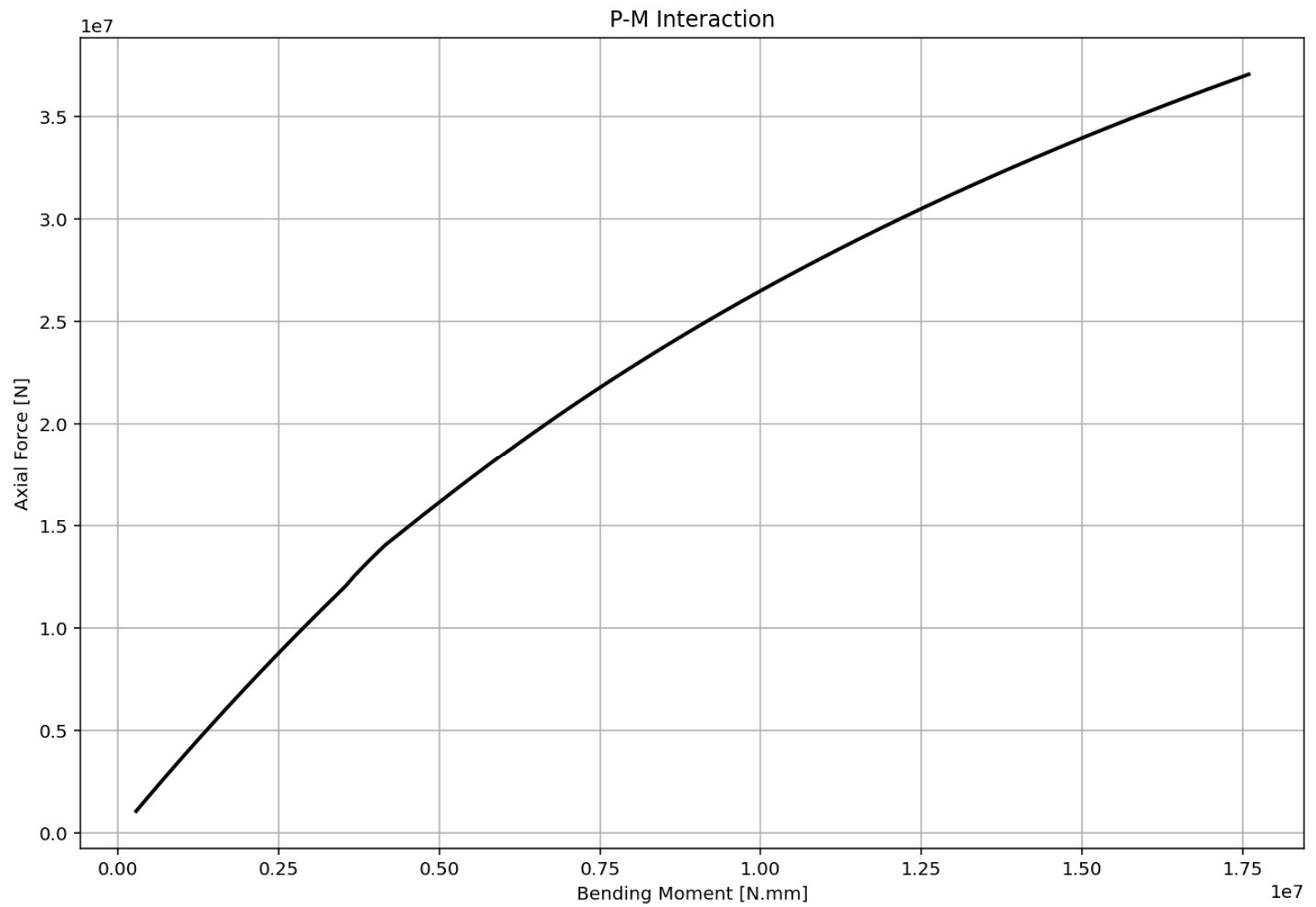


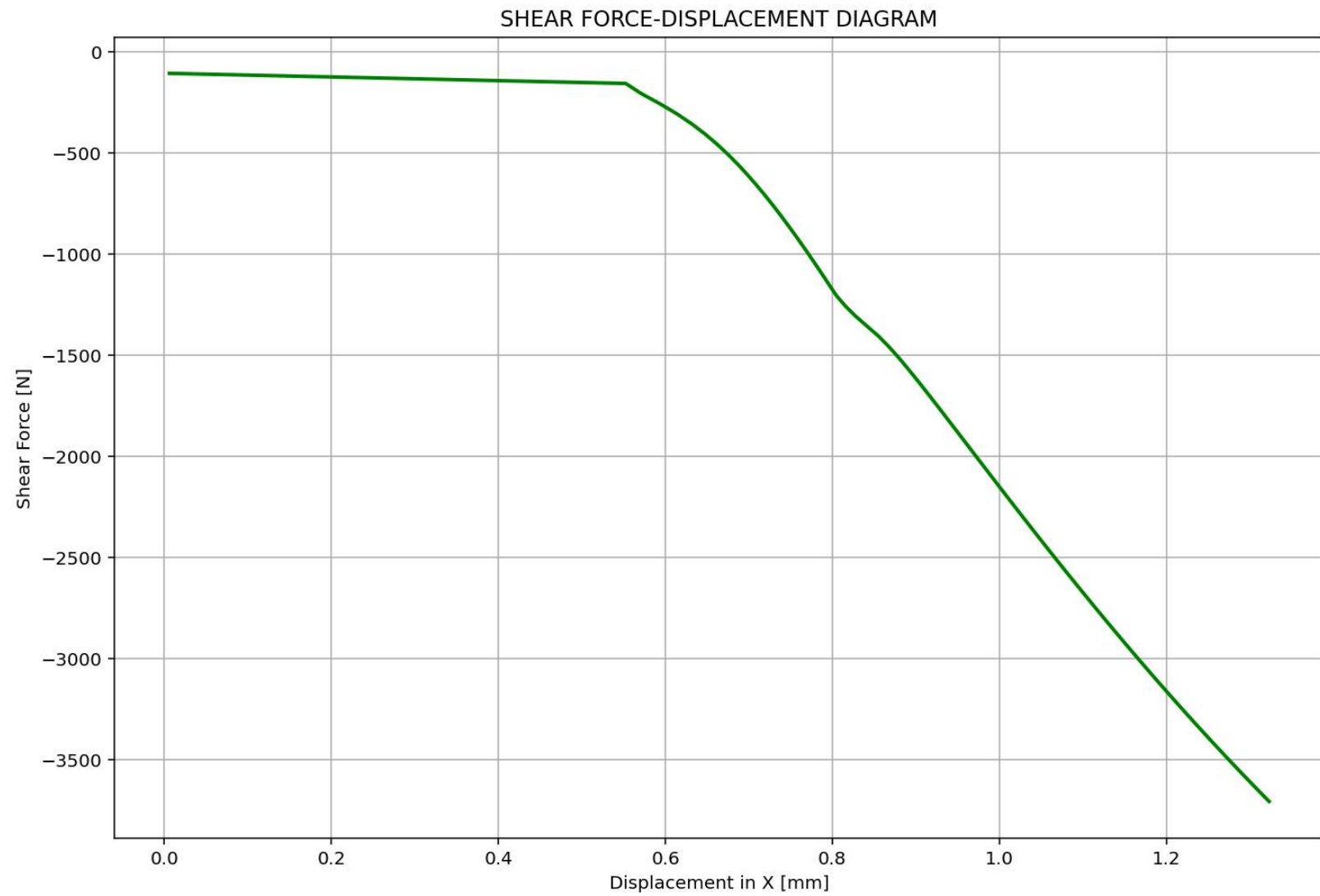
3D Contour Plot of Over Strength Factor [N/N]

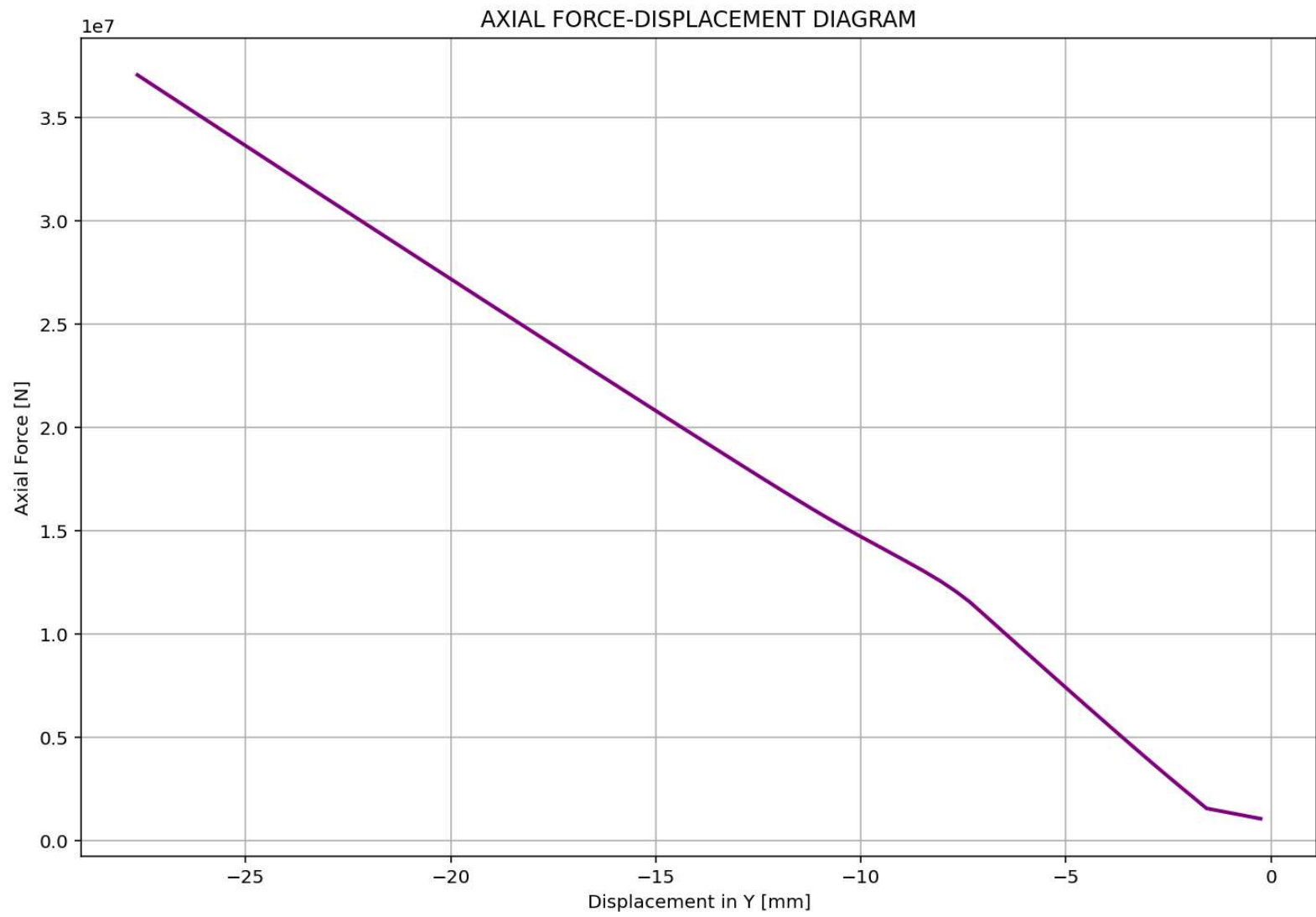


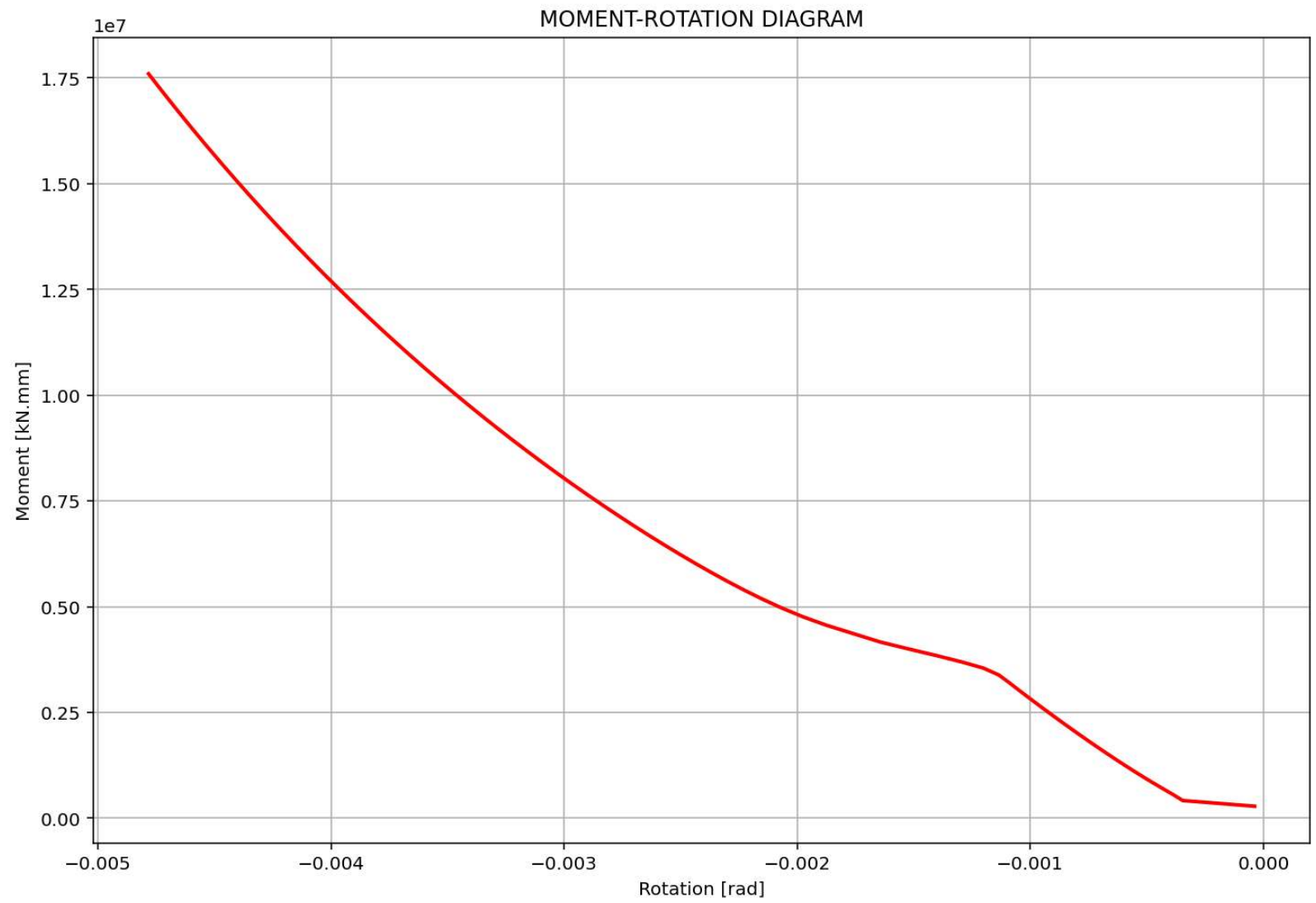
3D Contour Plot of Structural Behavior Coefficient



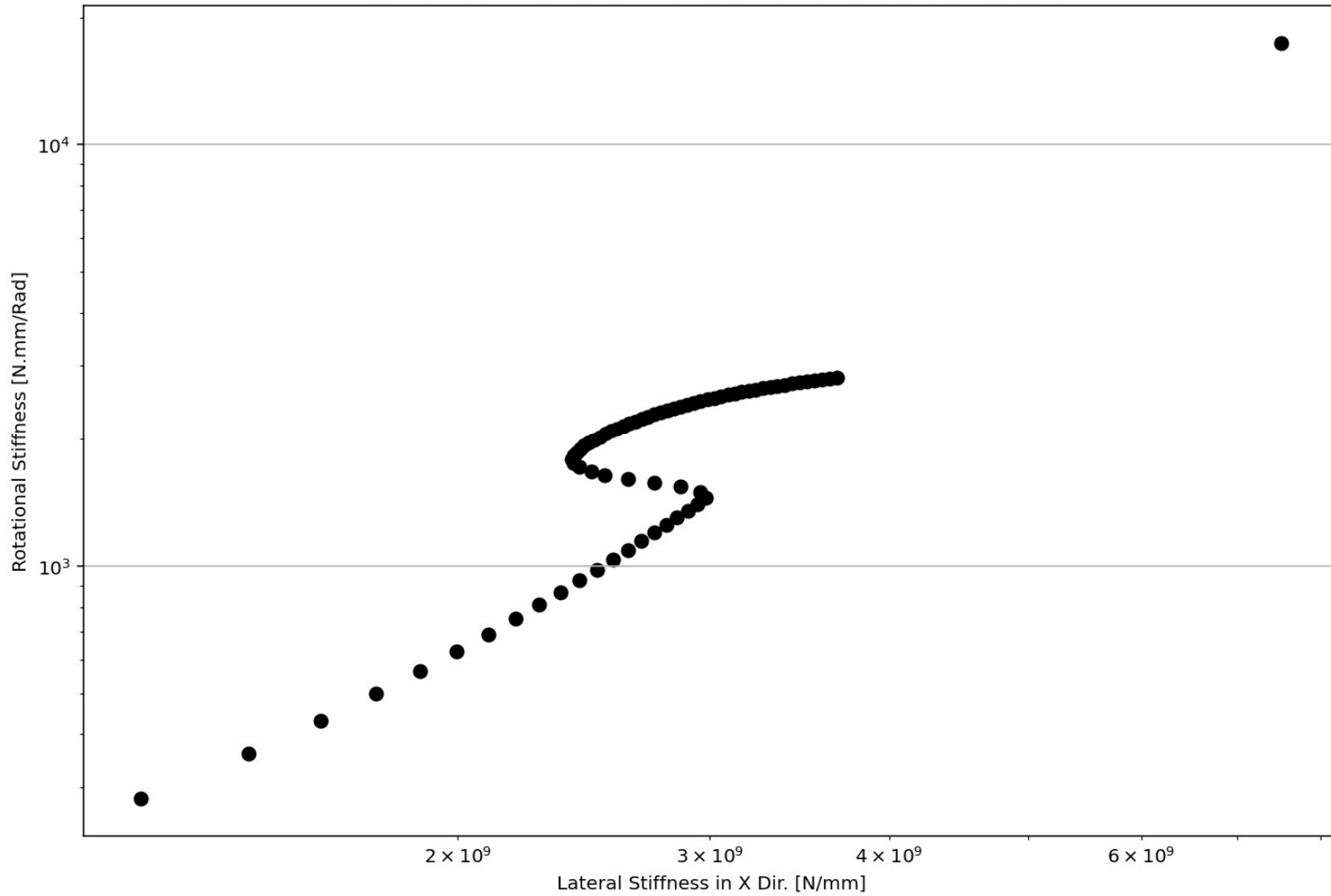




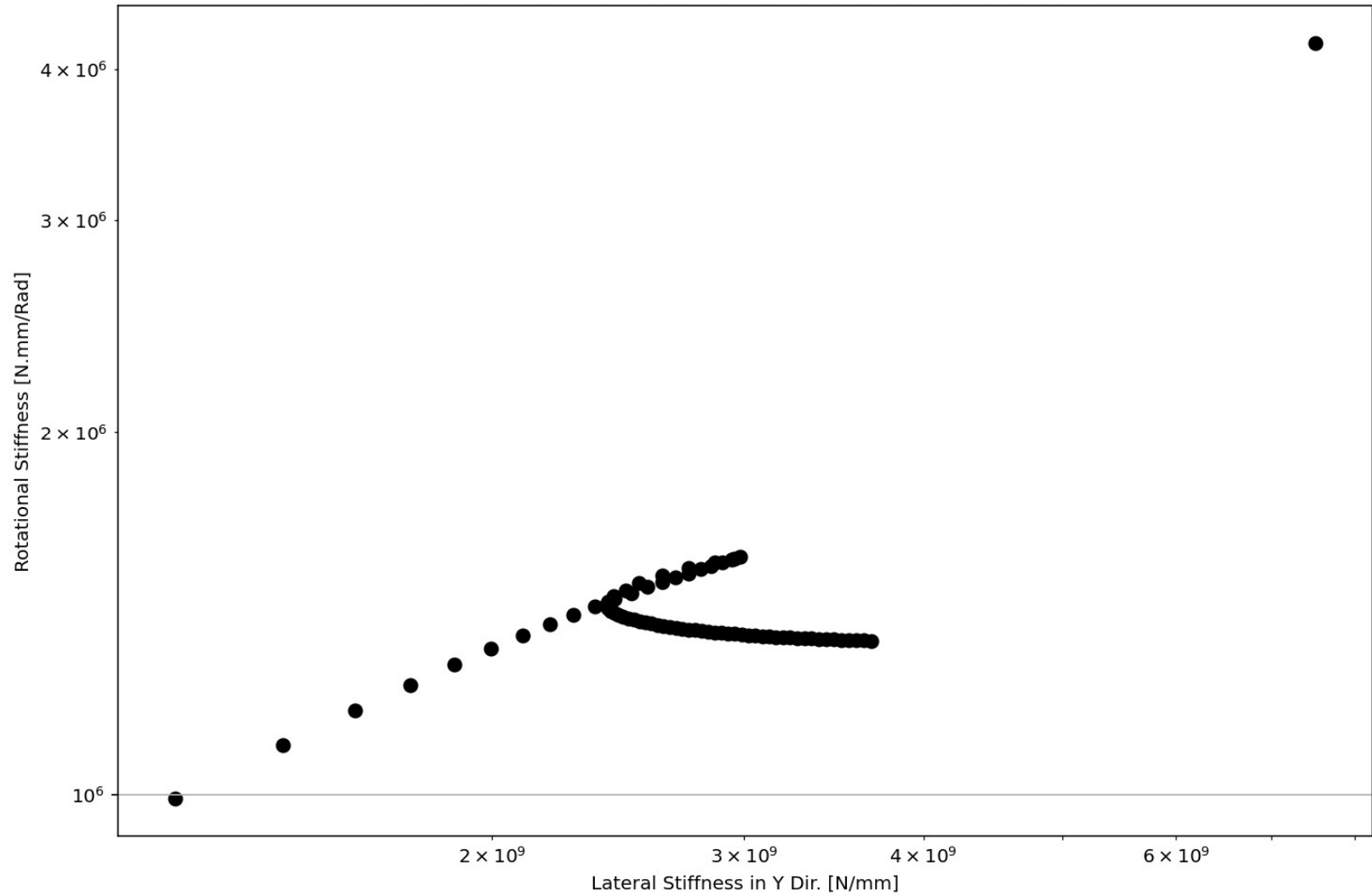


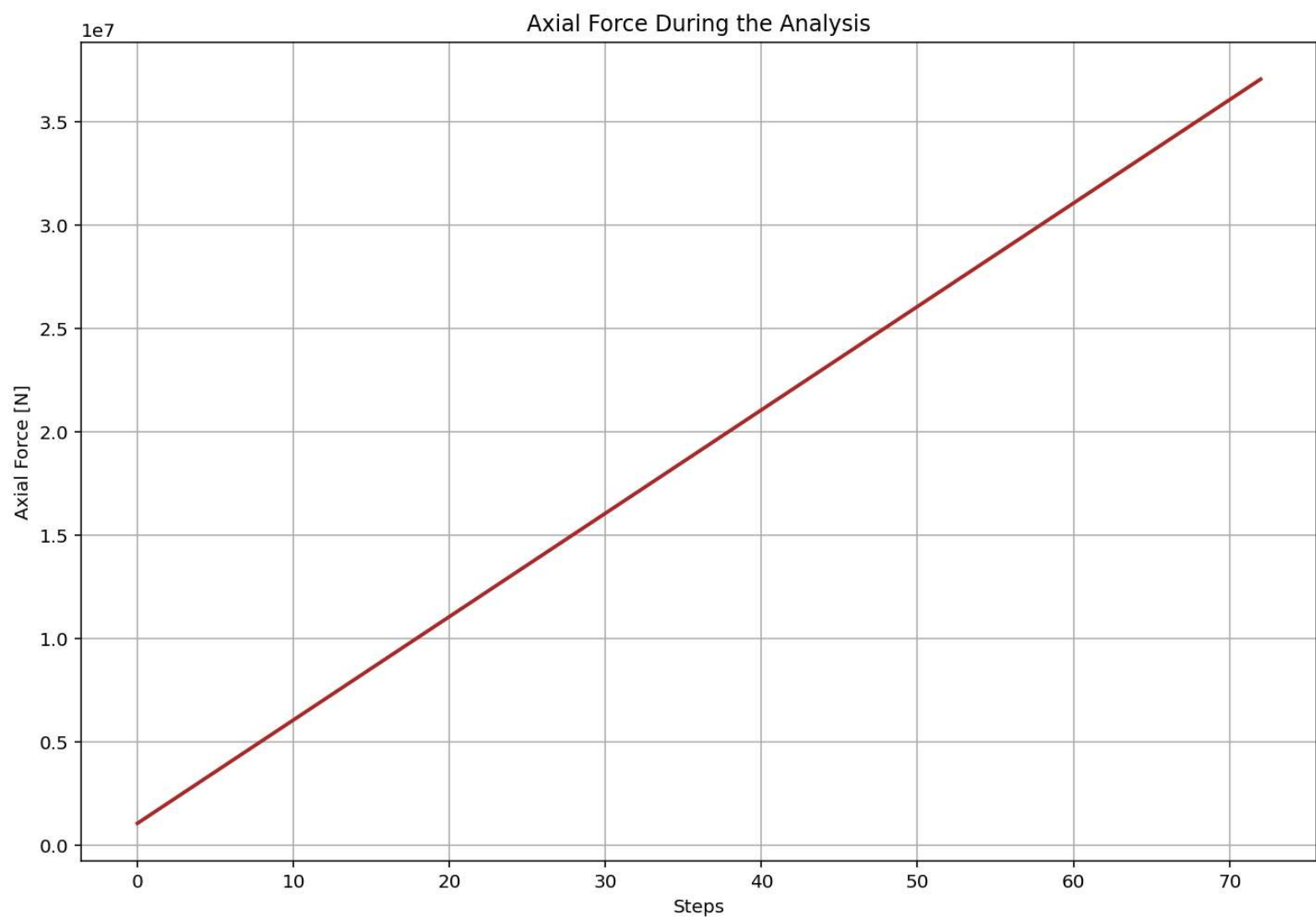


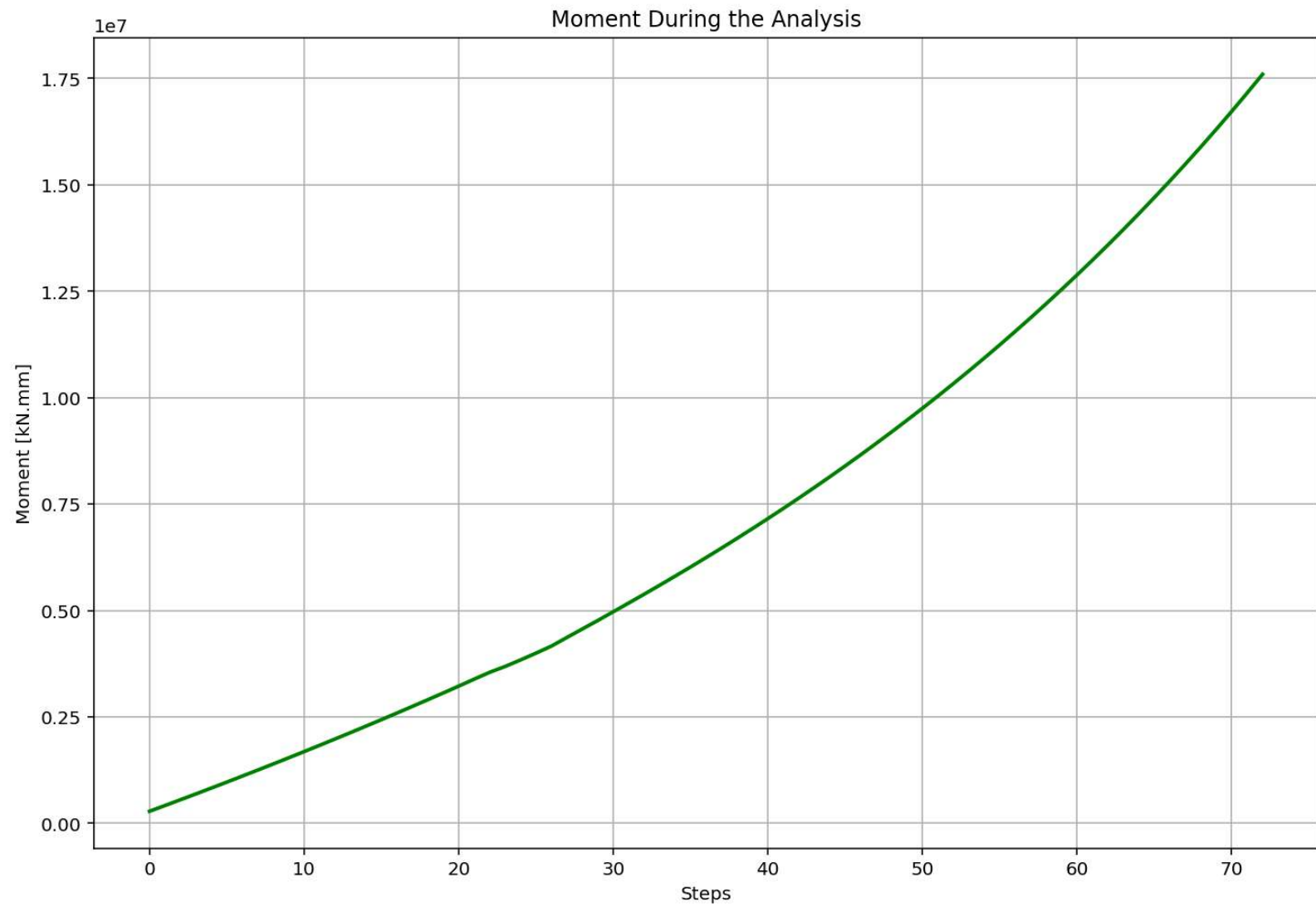
ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM (X Dir)

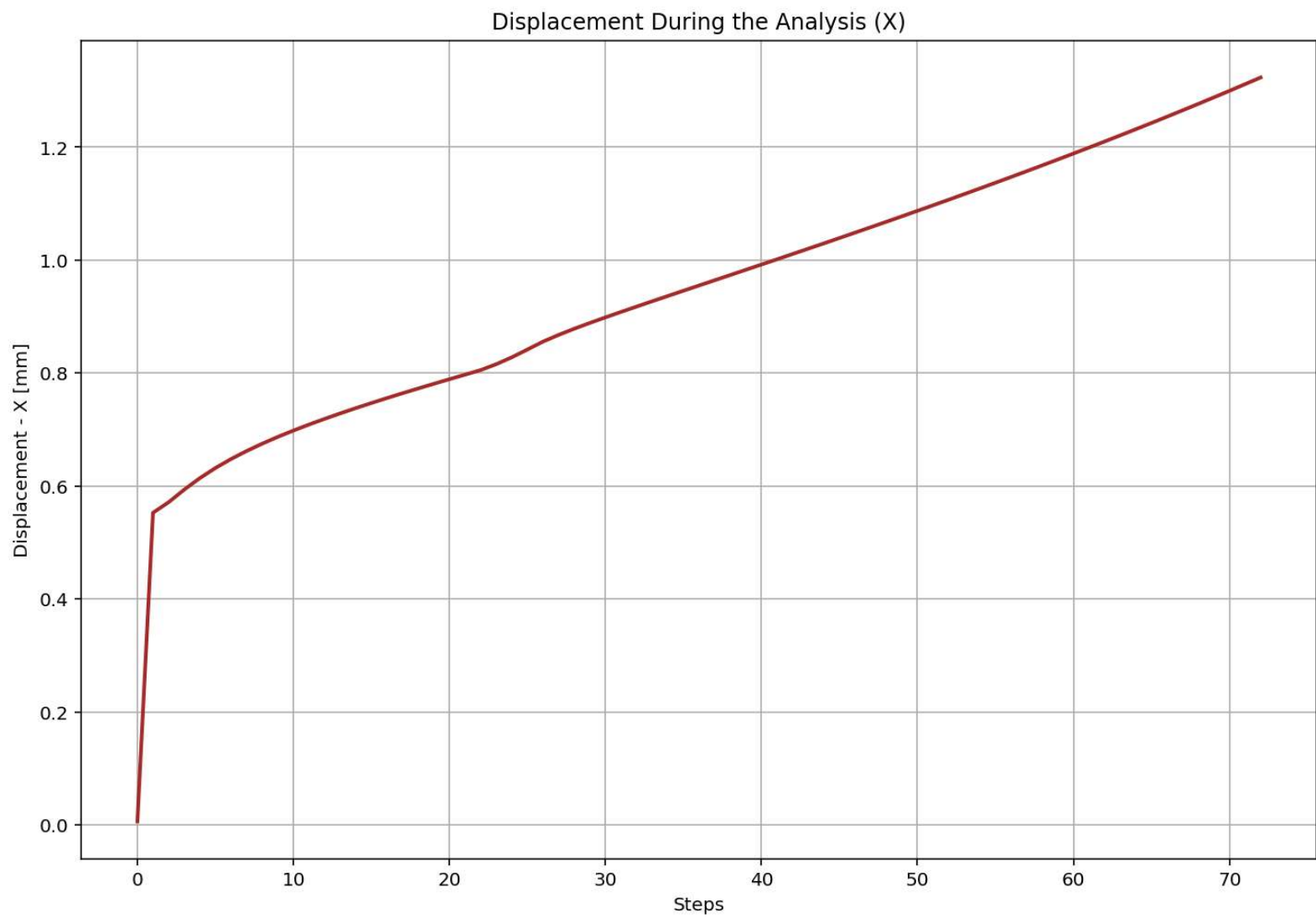


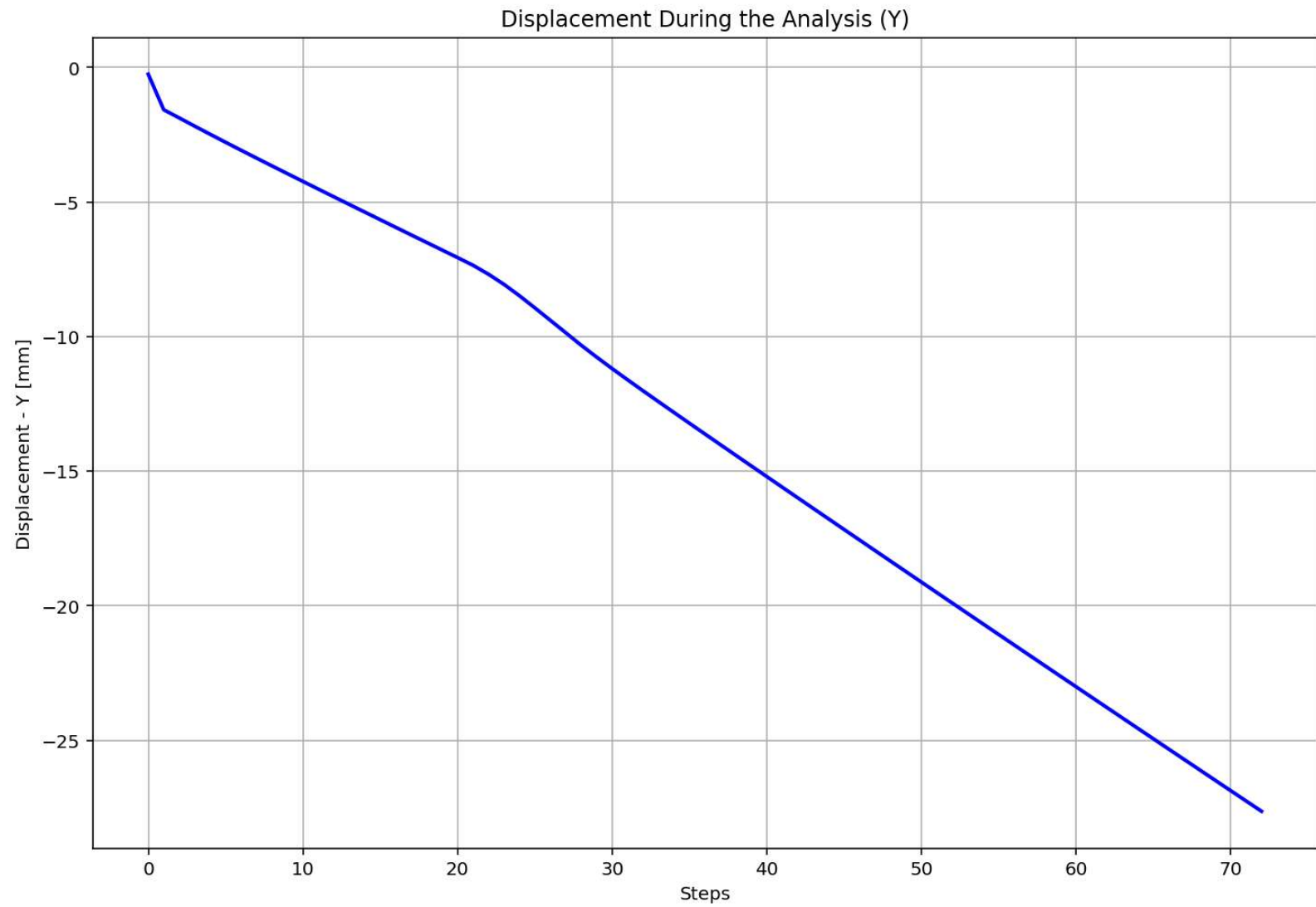
ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM (Y Dir)











Last Data of BaseShear-Displacement Analysis - Ductility Ratio: 1.7708 - Over Strength Factor: 5.7132

