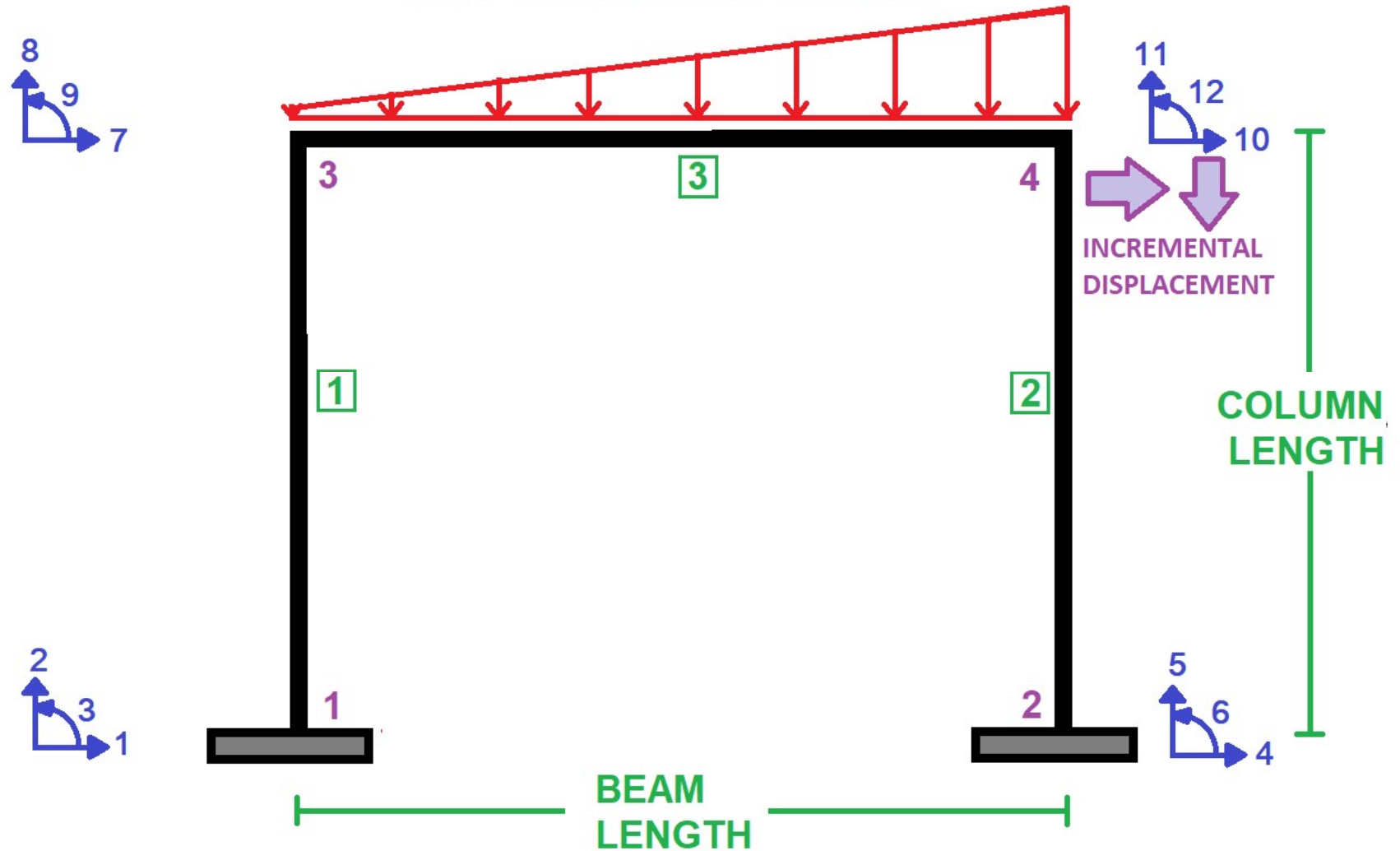


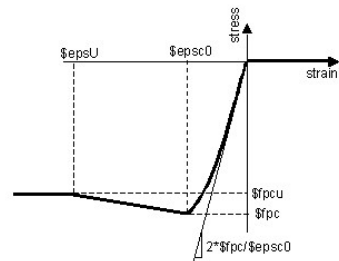
IN THE NAME OF ALLAH

**PROGRESSIVE COLLAPSE ANALYSIS OF CONCRETE FRAME.
EVALUATING STRAIN HARDENING AND ULTIMATE STRAIN
CRITERIA USING OPENSEES.
DISPLACEMENT CONTROL**

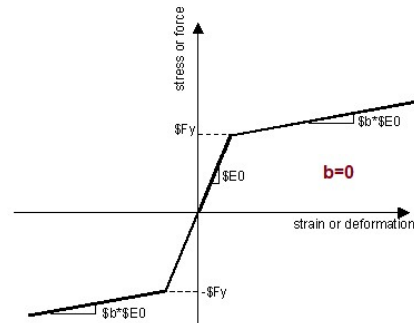
WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)

DISTRIBUTED LOAD

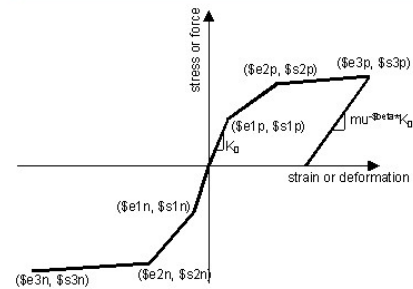




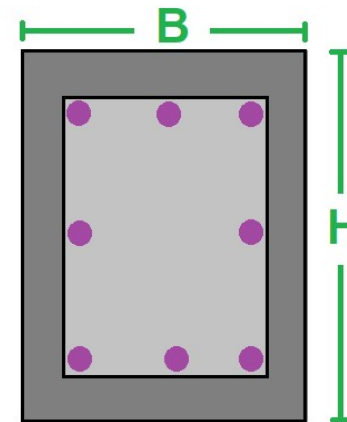
CORE AND COVER CONCRETE REACTION



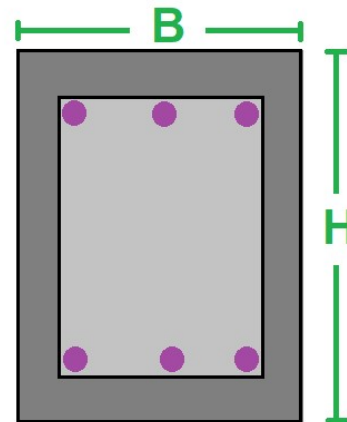
WITHOUT HARDENING AND ULTIMATE STRAIN



WITH HARDENING AND ULTIMATE STRAIN

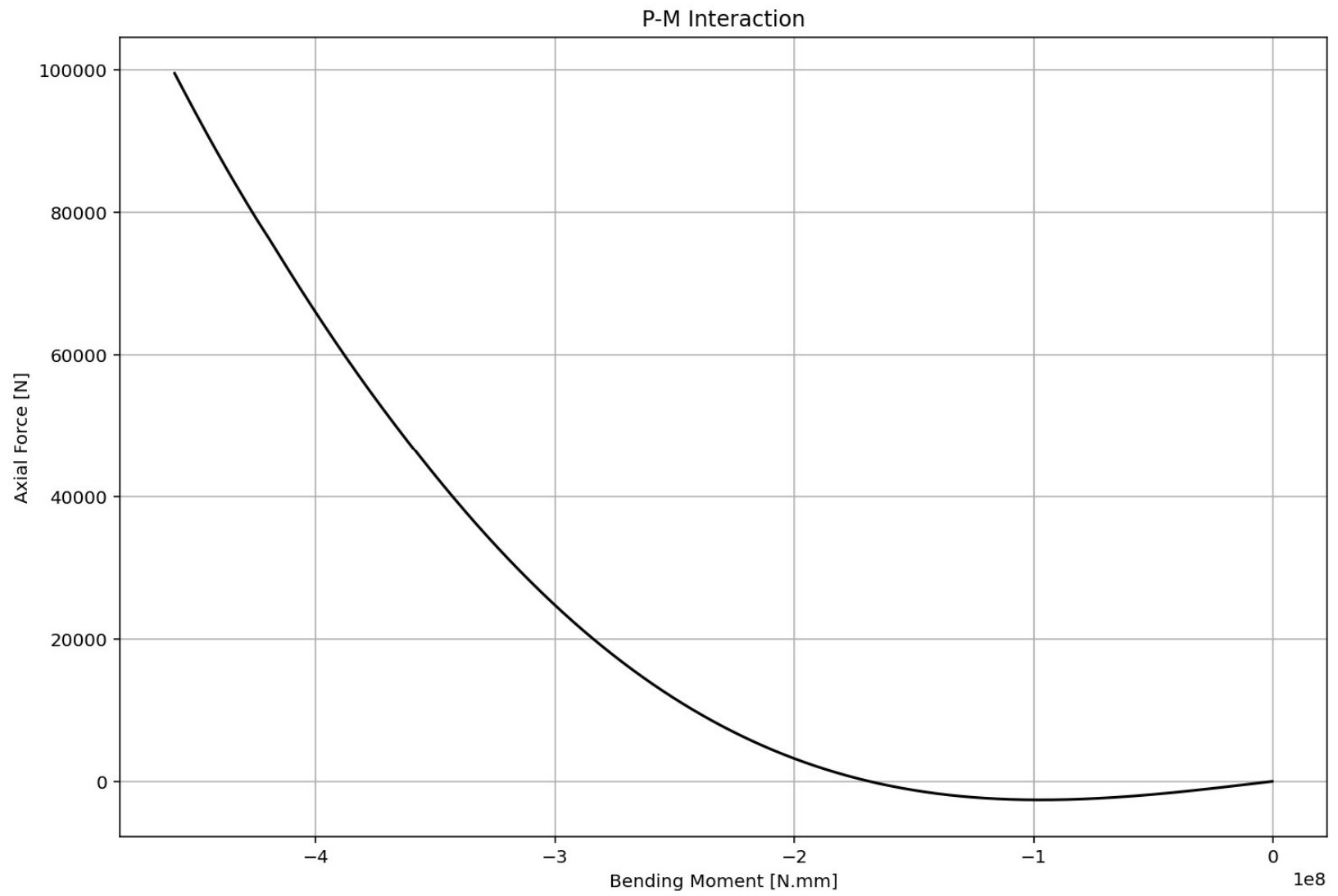


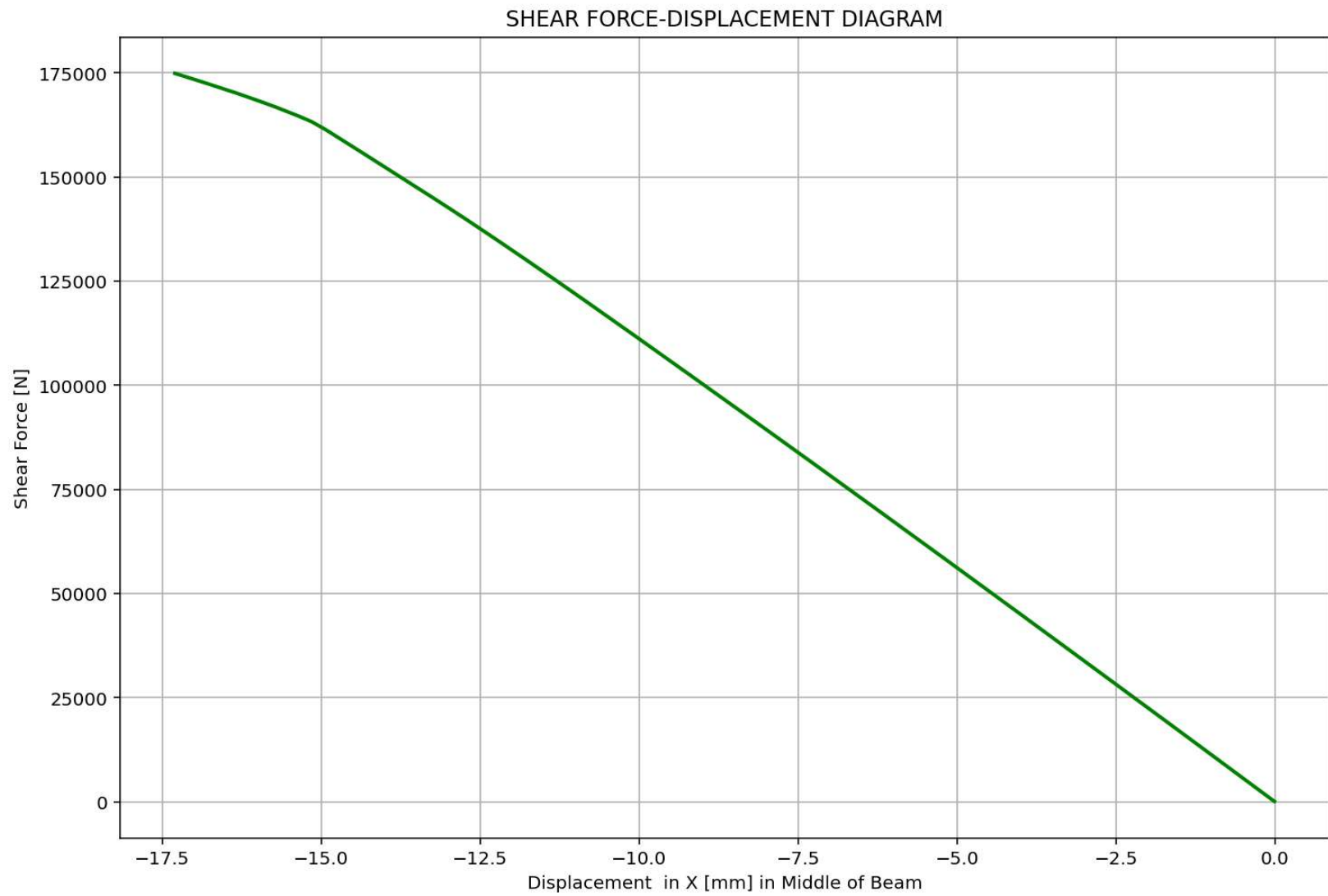
COLUMN SECTION

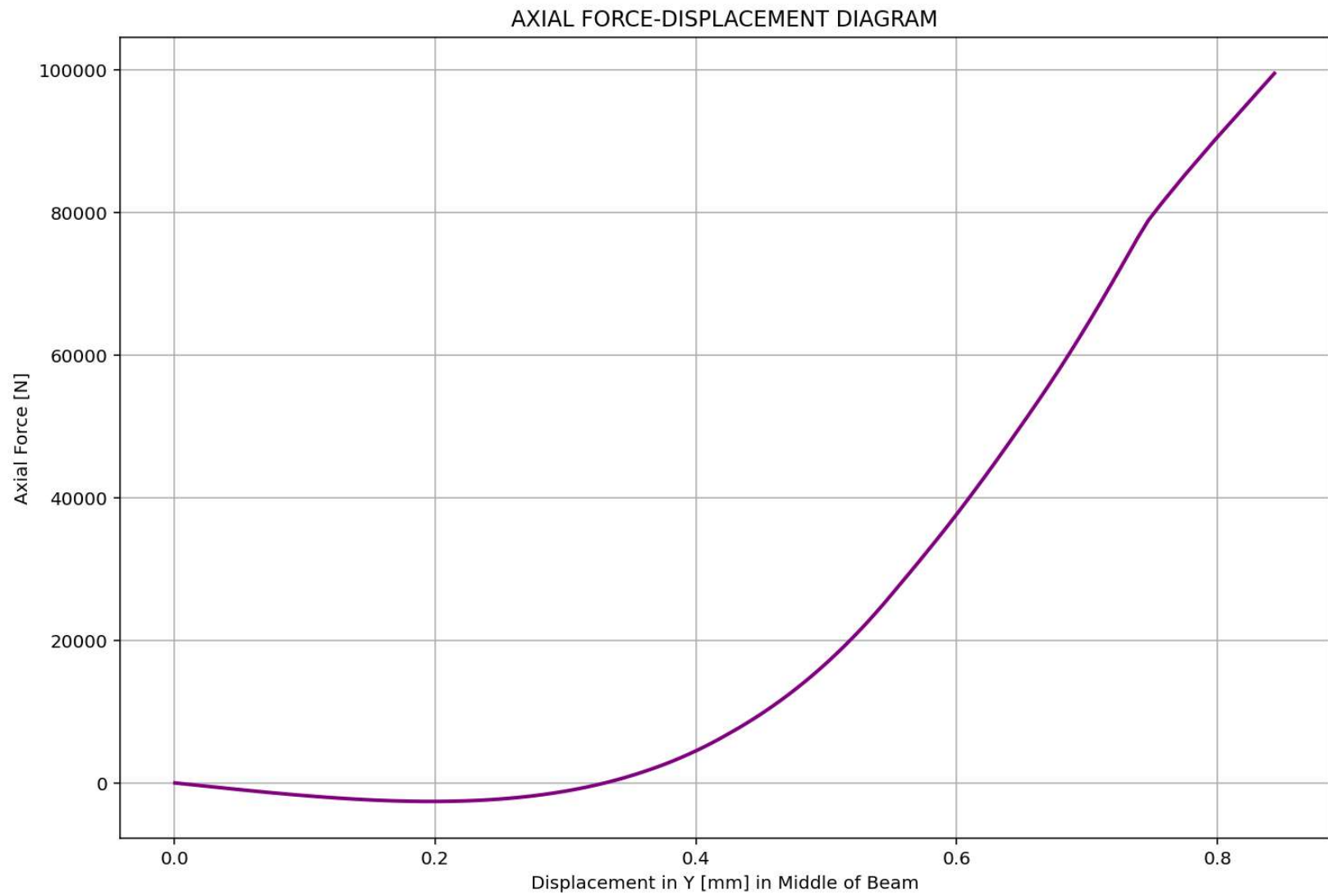


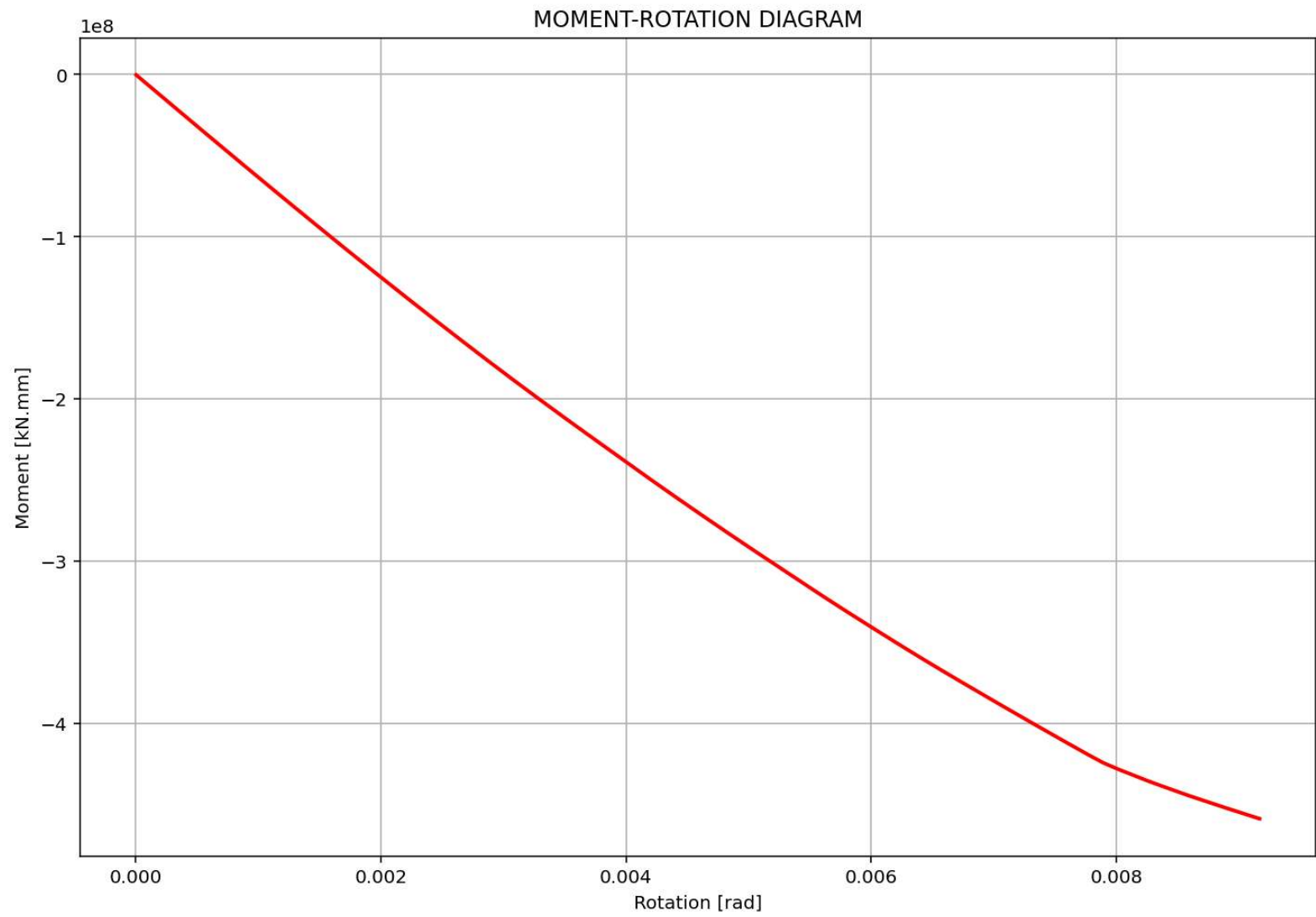
BEAM SECTION

DISPLACEMENT CONTROL

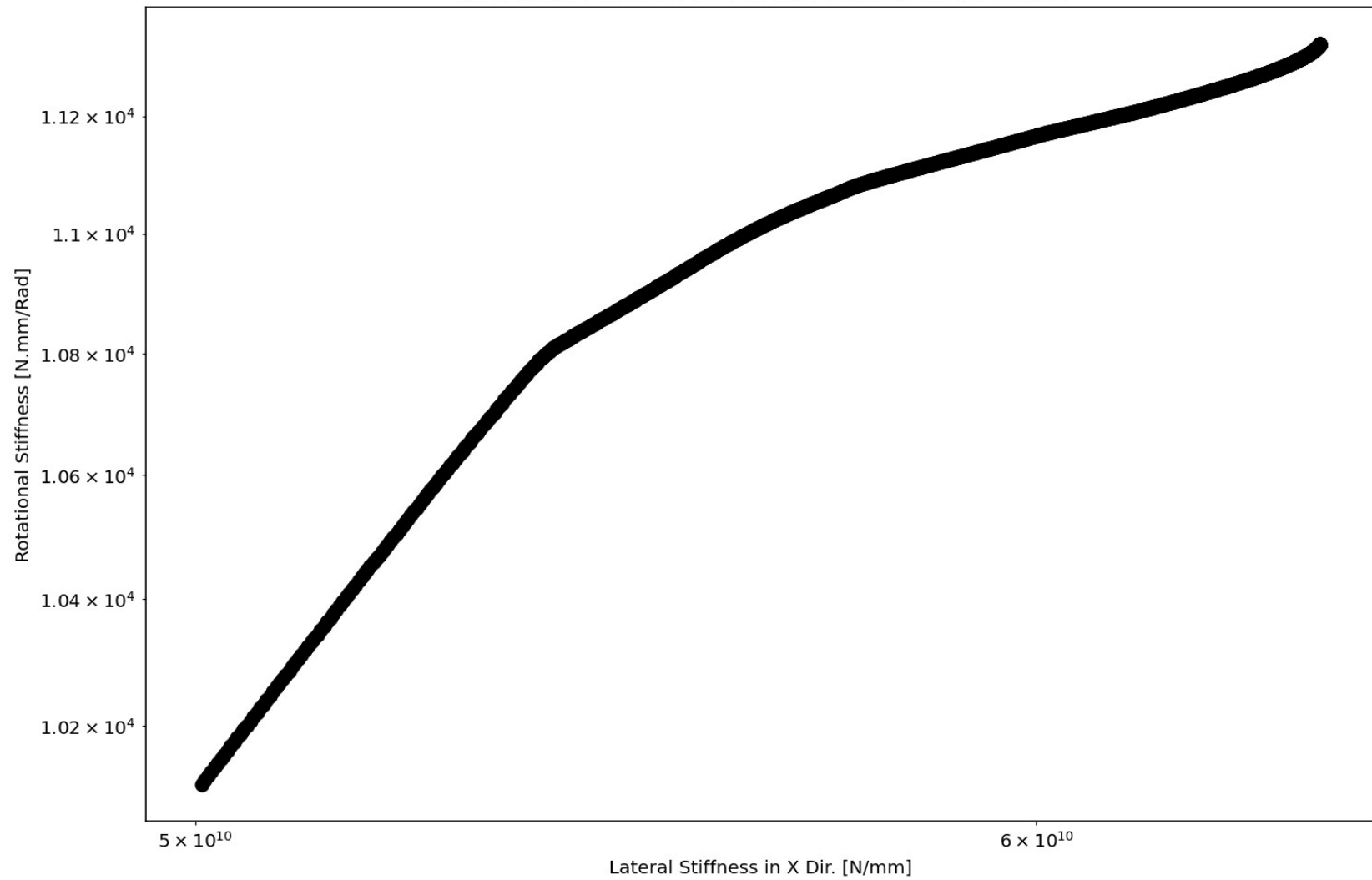




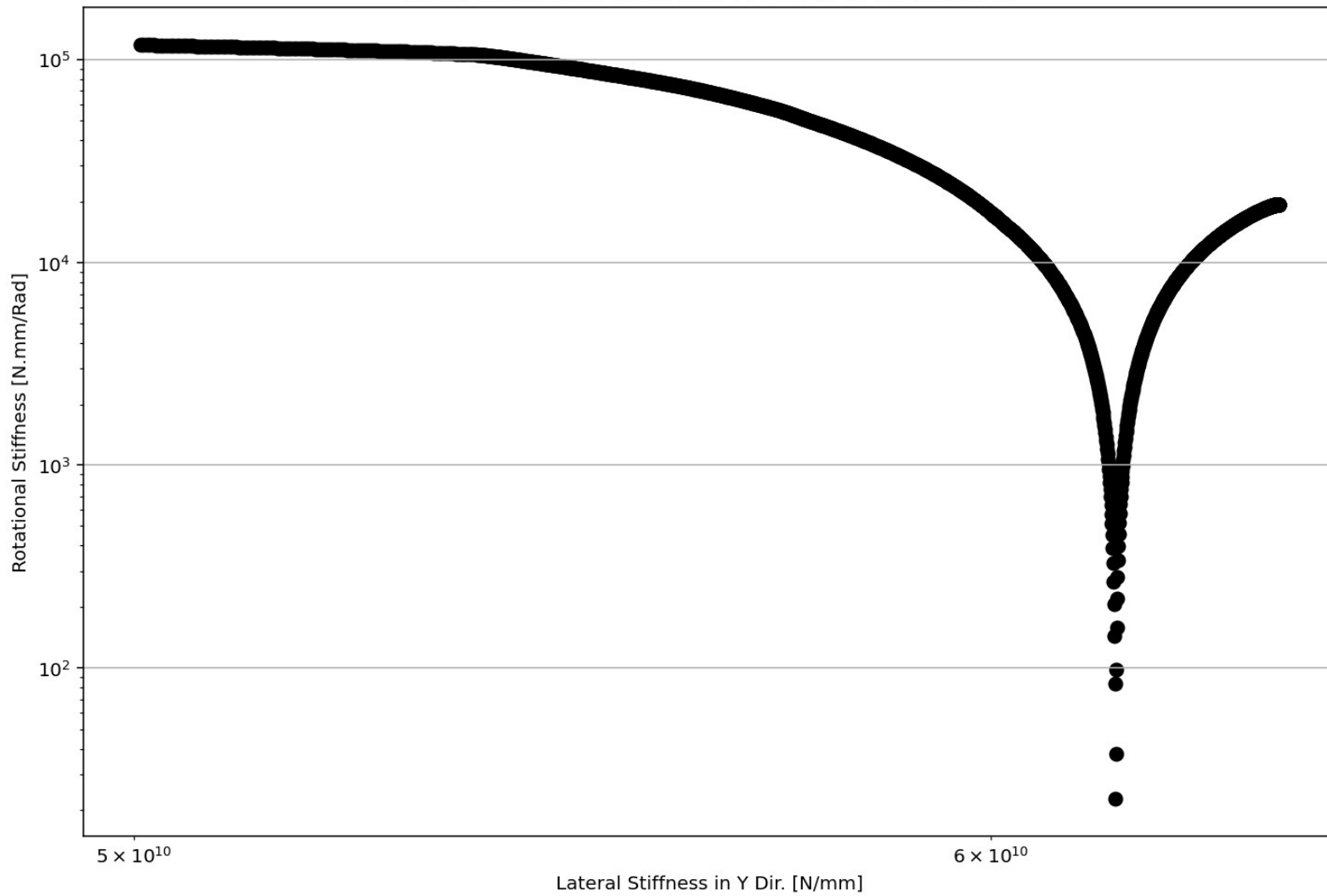


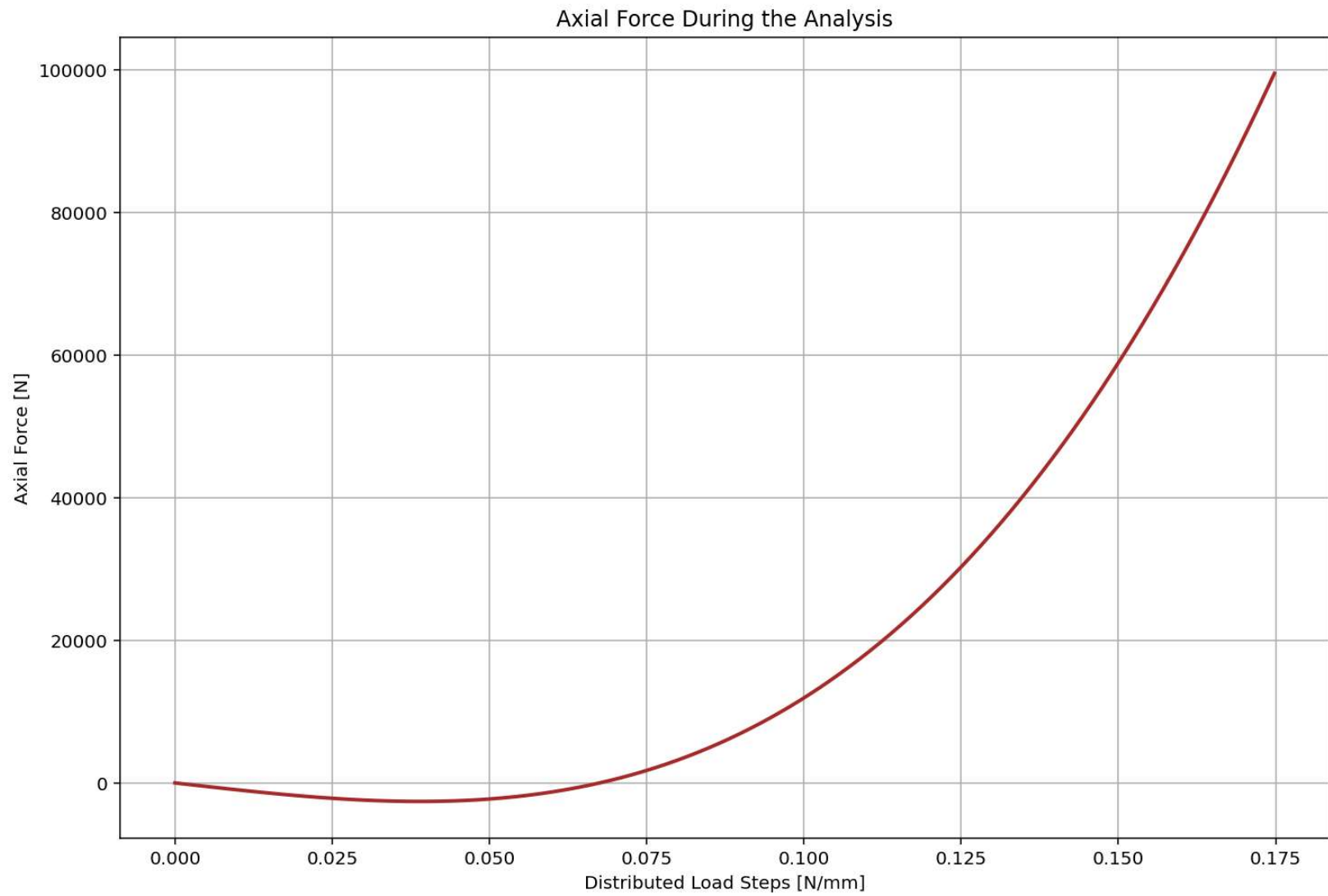


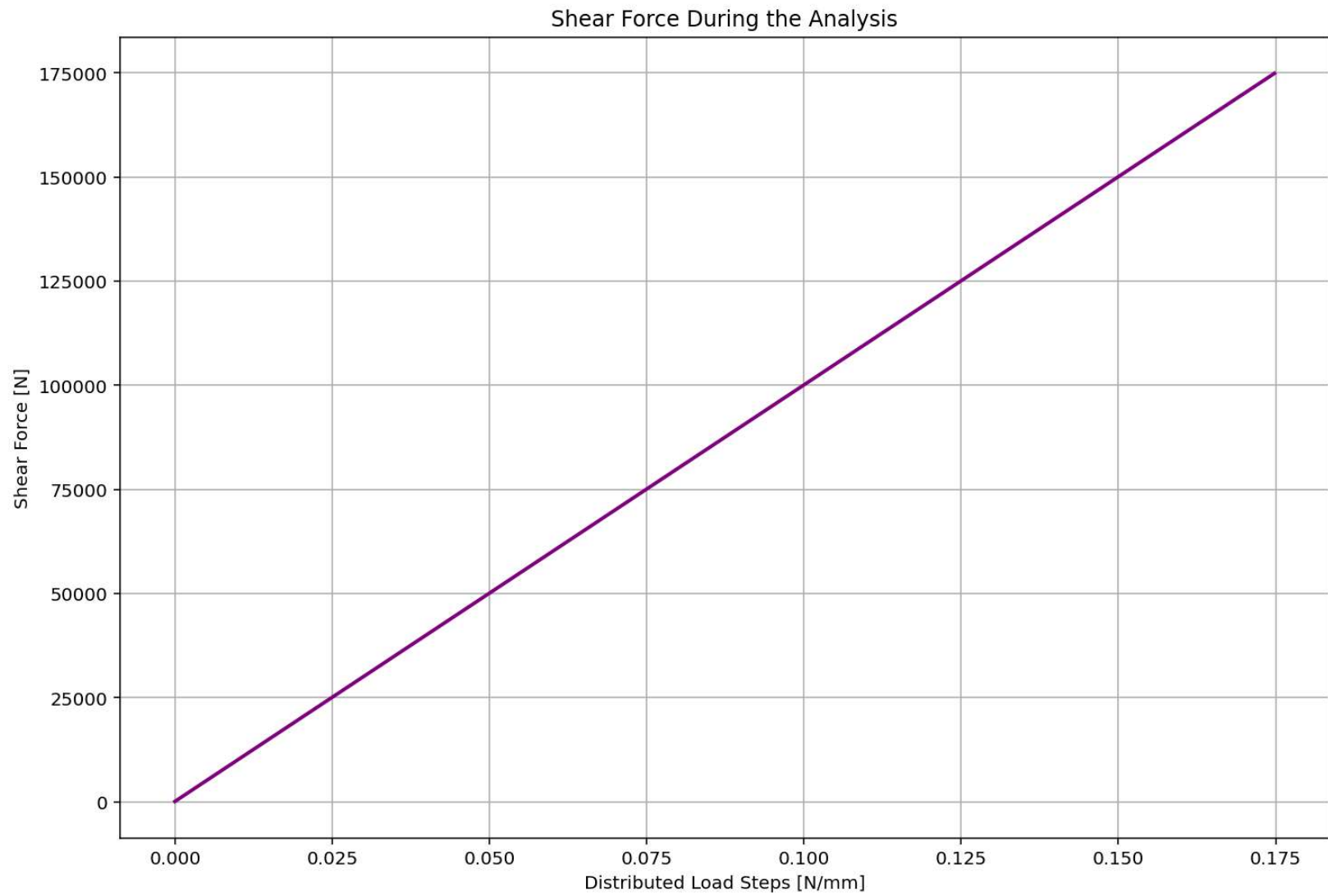
ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM

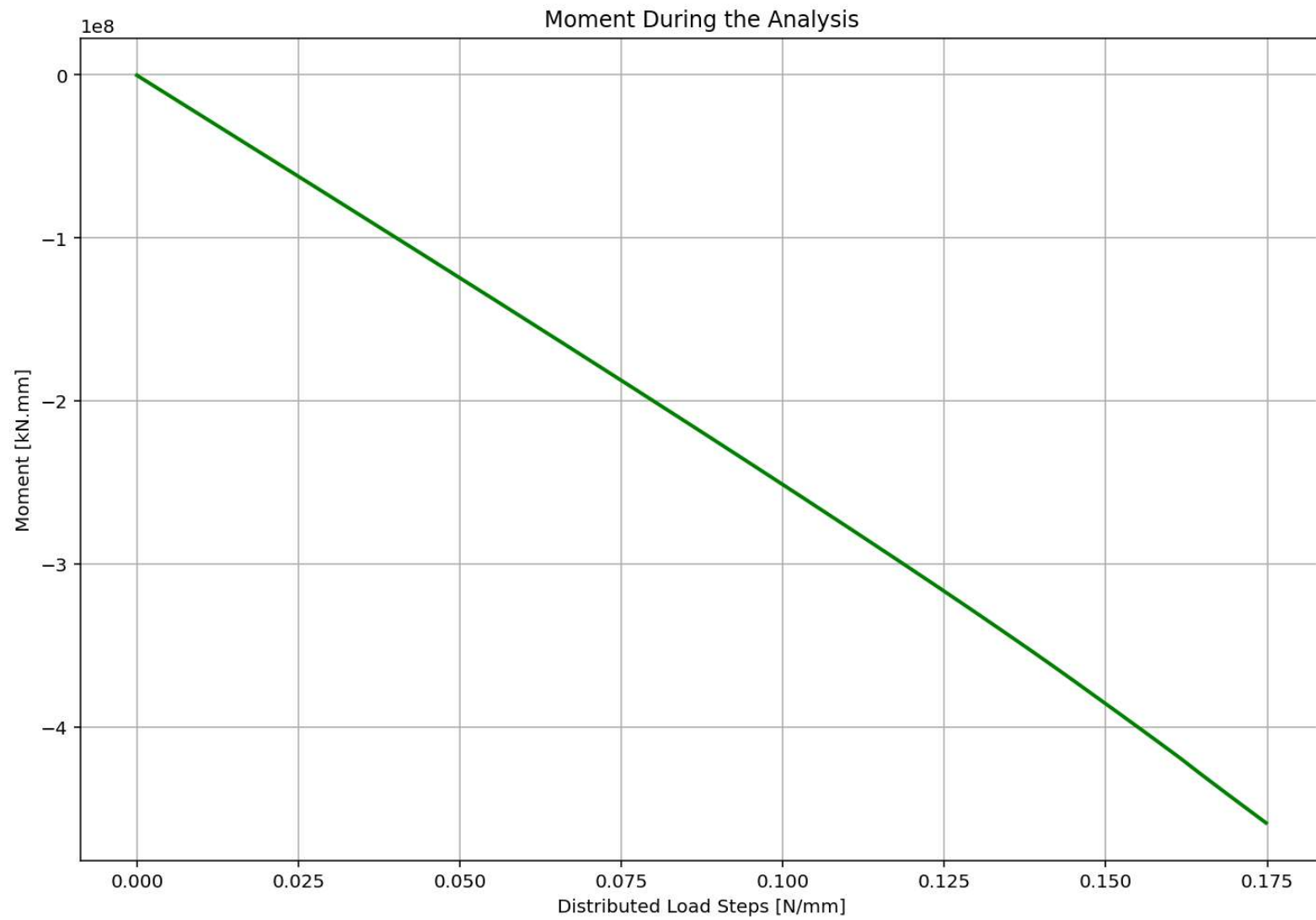


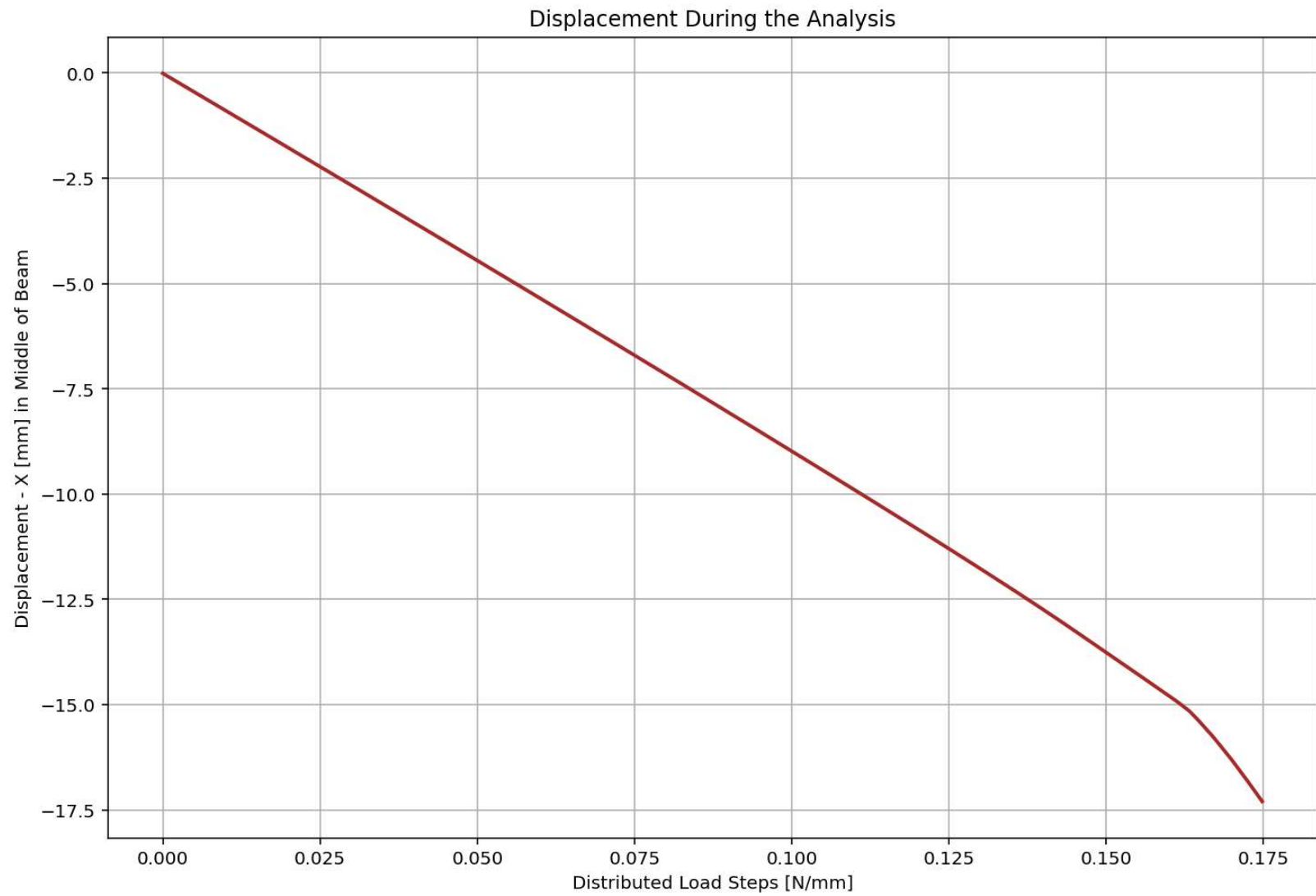
ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM

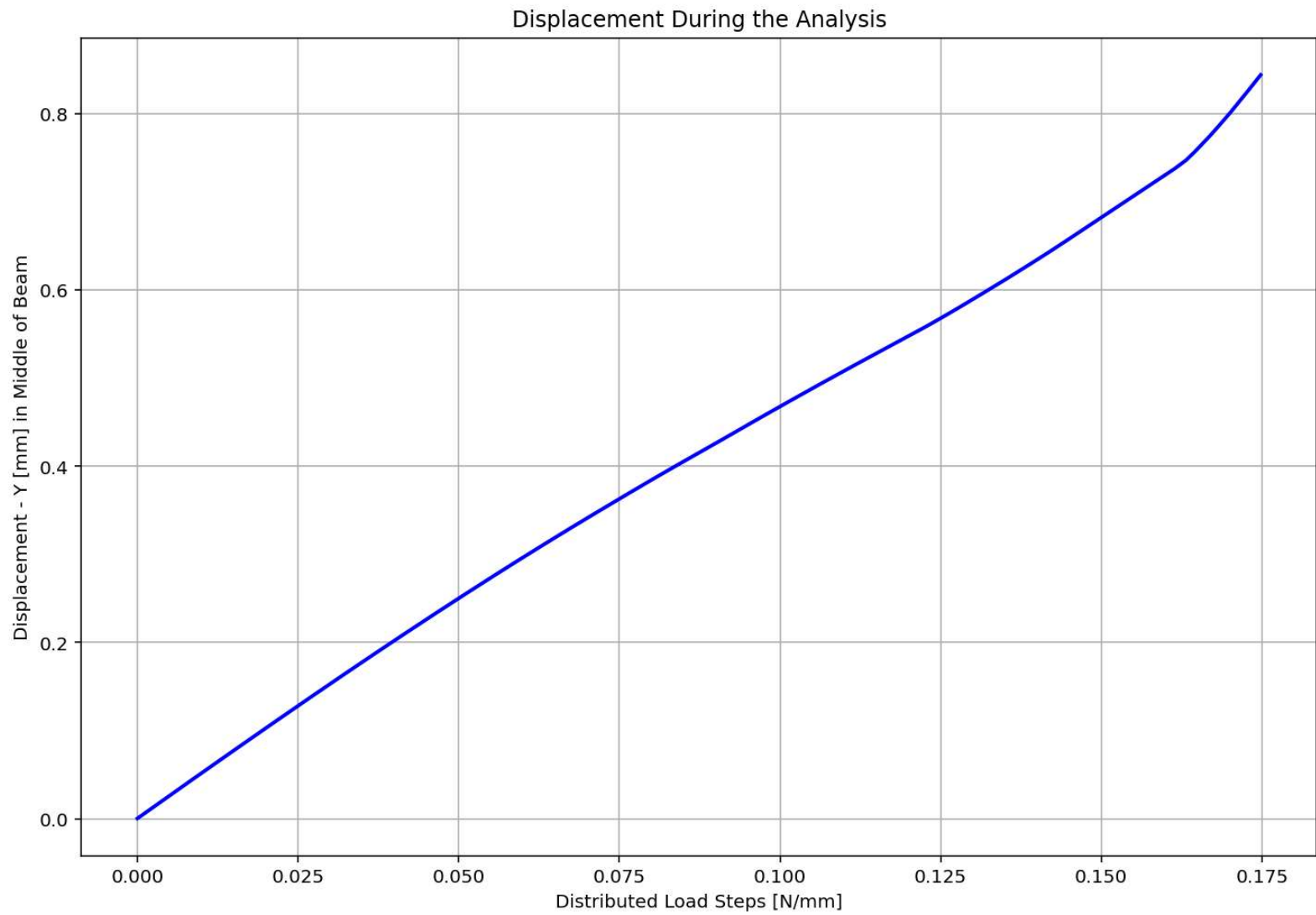




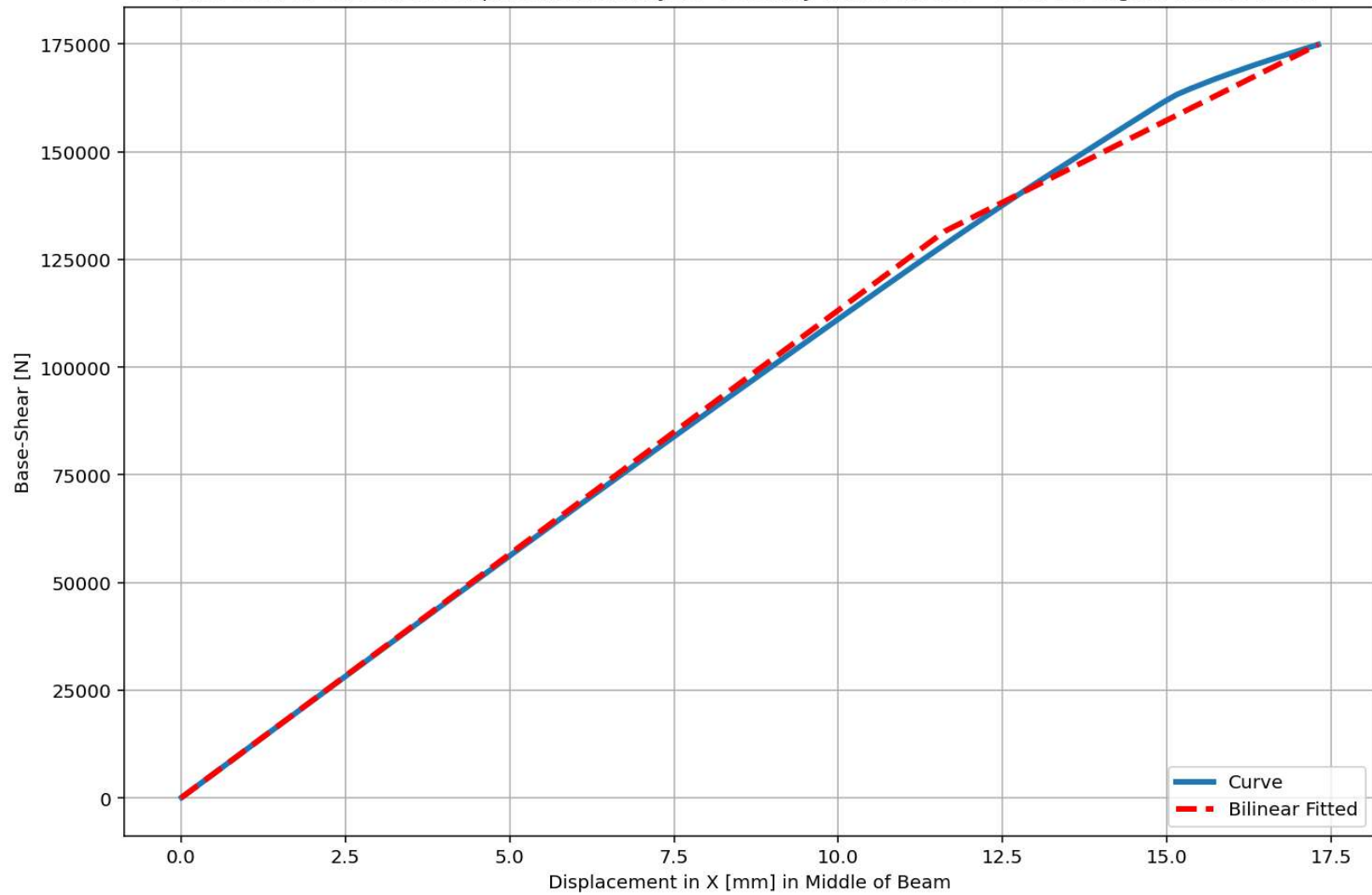




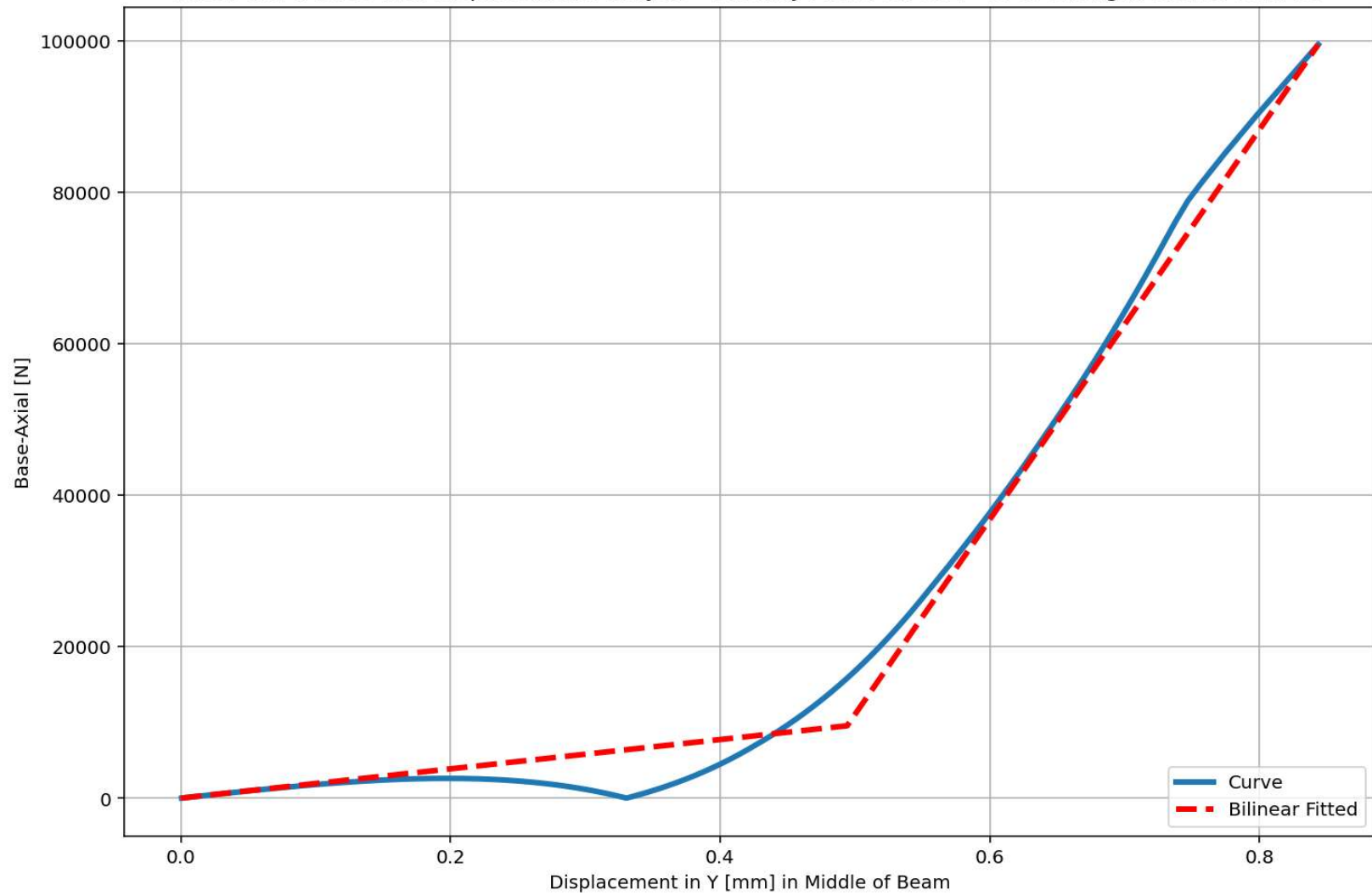


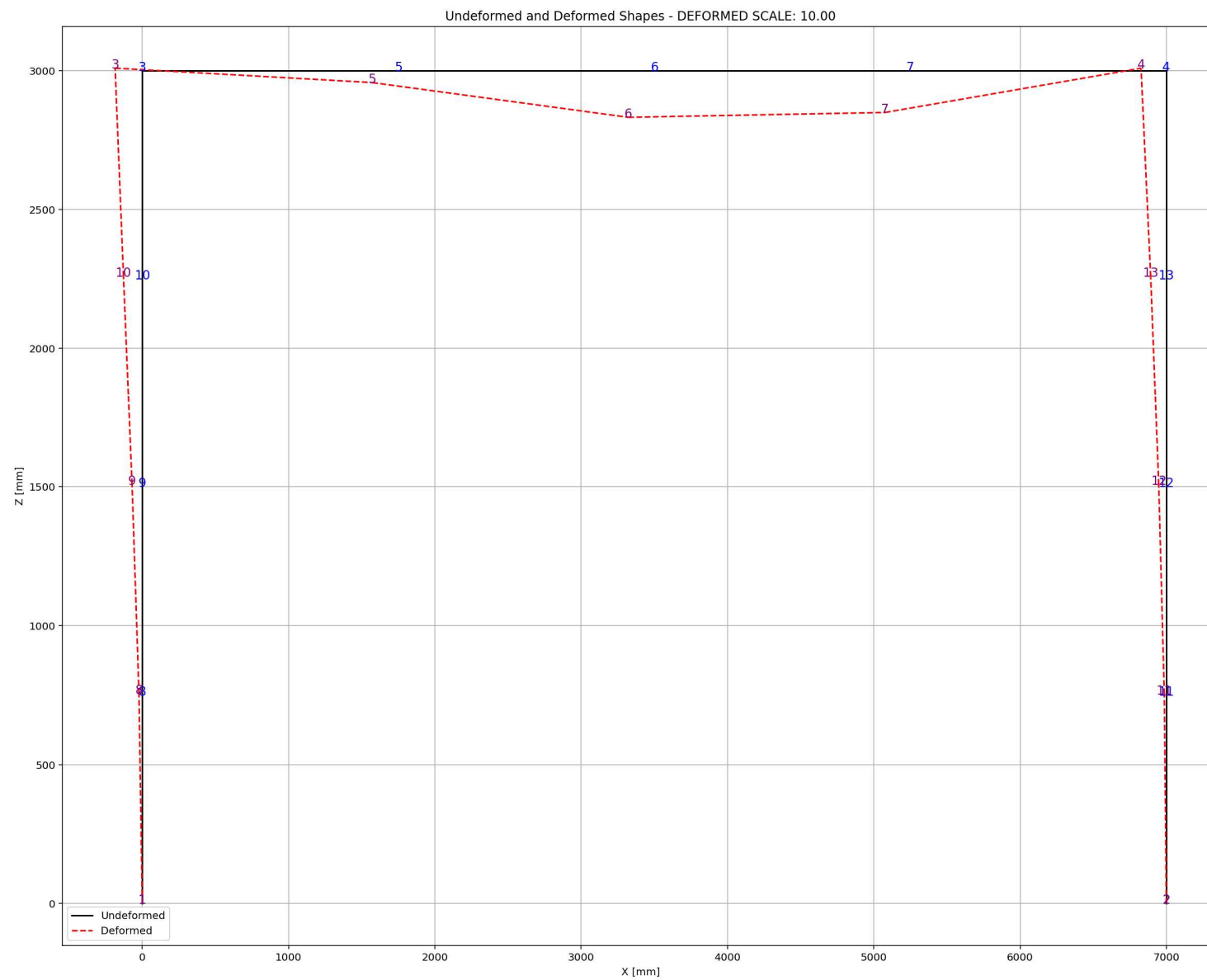


Last Data of BaseShear-Displacement Analysis - Ductility Ratio: 1.4893 - Over Strength Factor: 1.3297

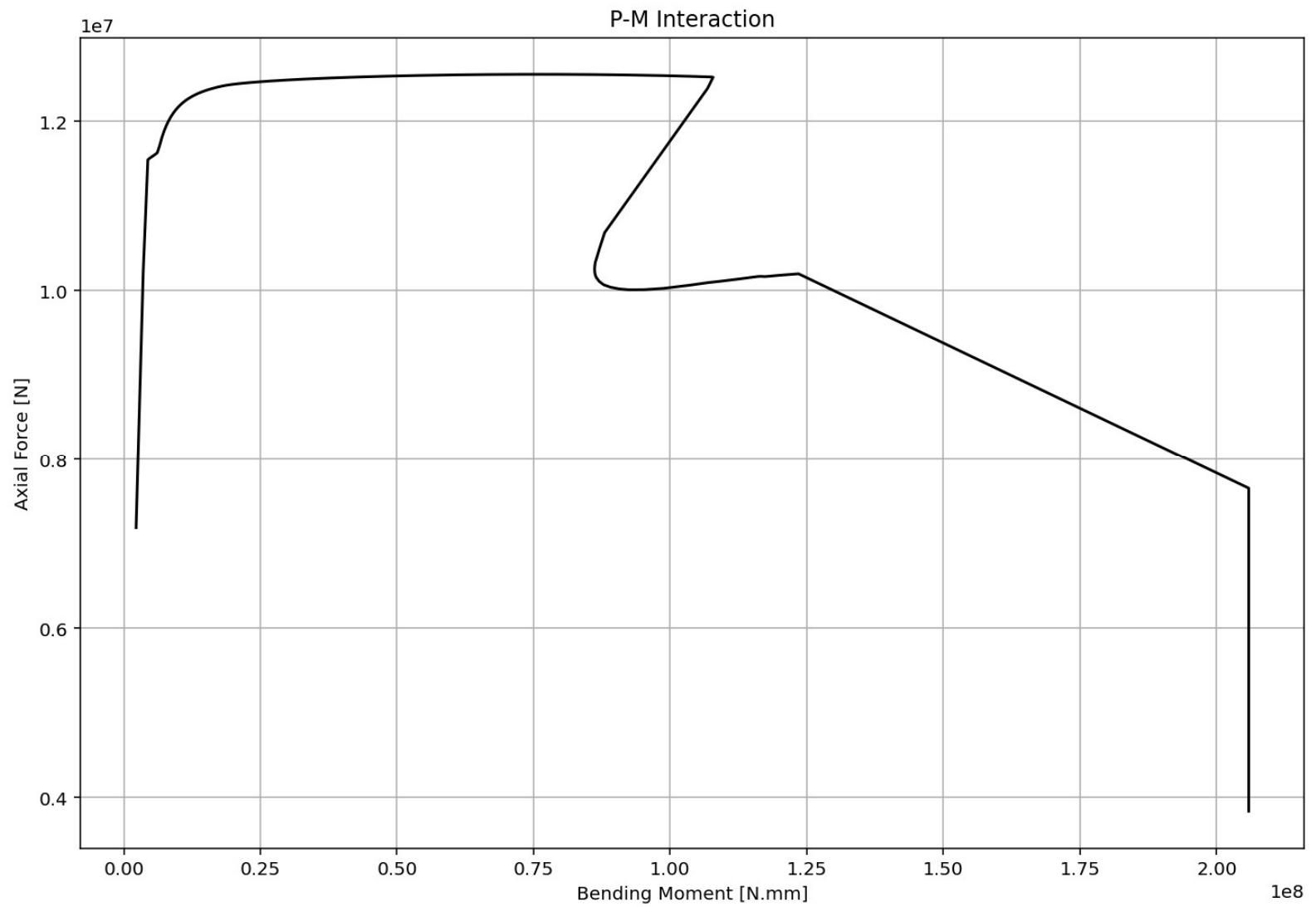


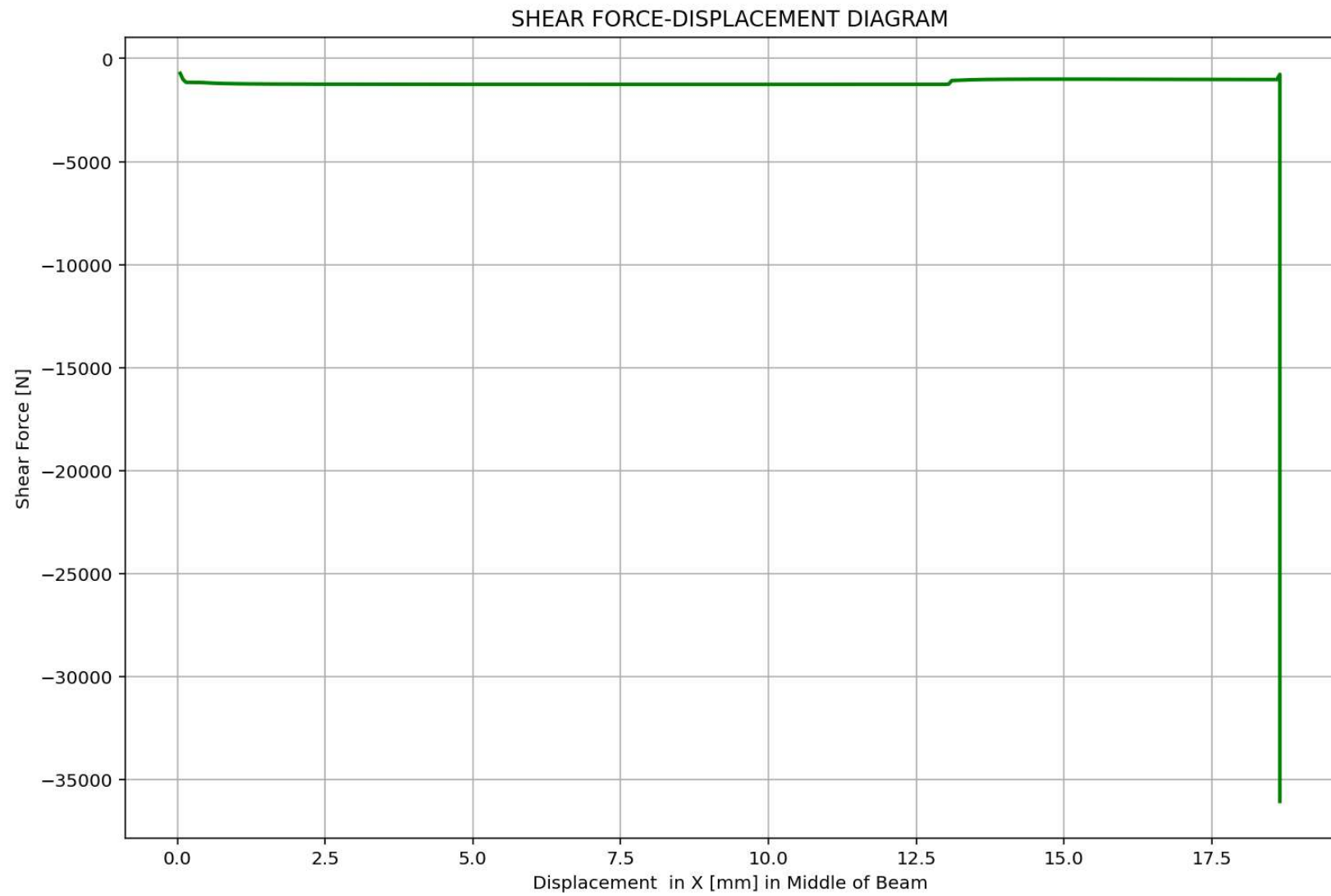
Last Data of BaseAxial-Displacement Analysis - Ductility Ratio: 1.7072 - Over Strength Factor: 10.4139

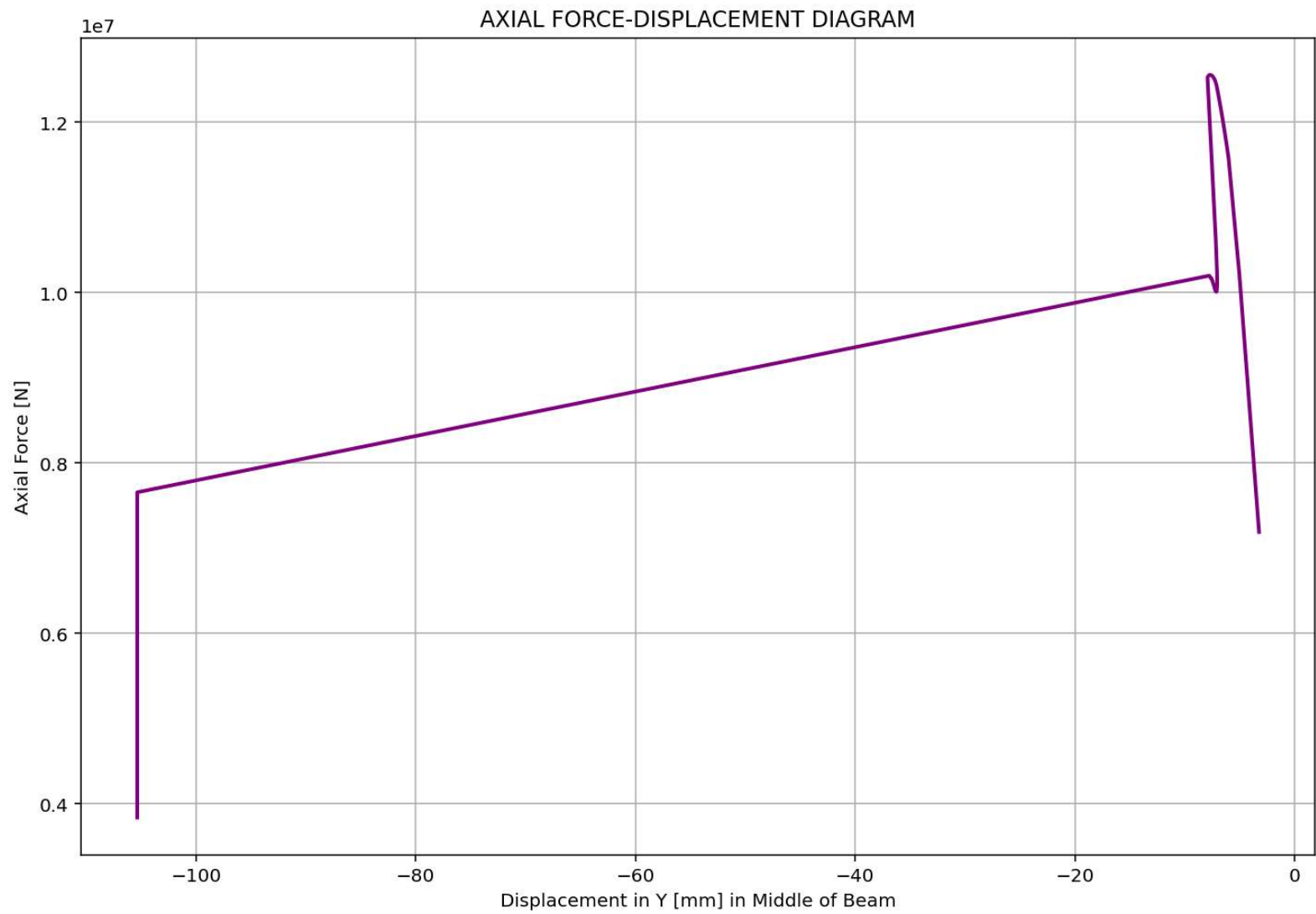


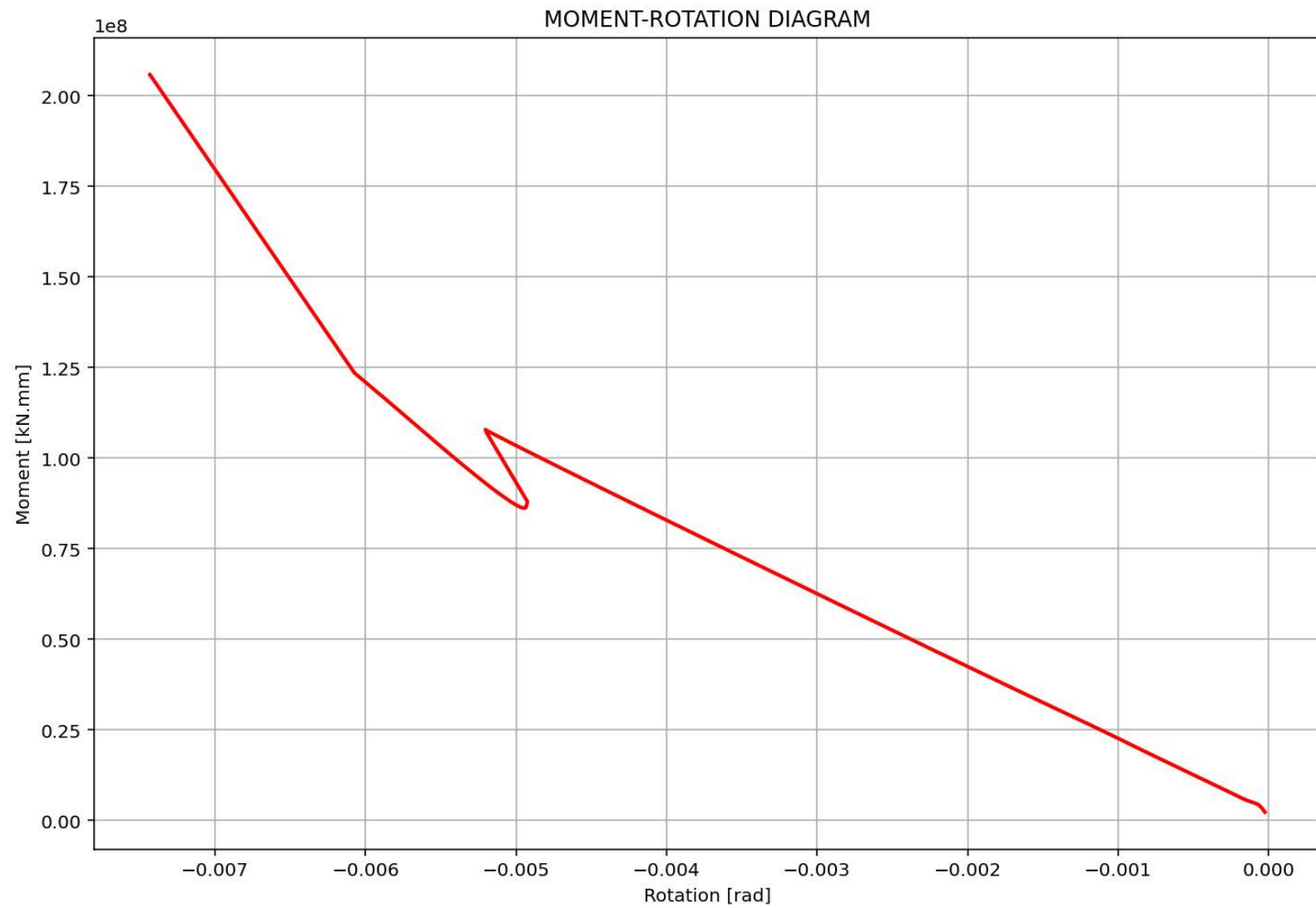


DISPLACEMENT CONTROL









ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM

