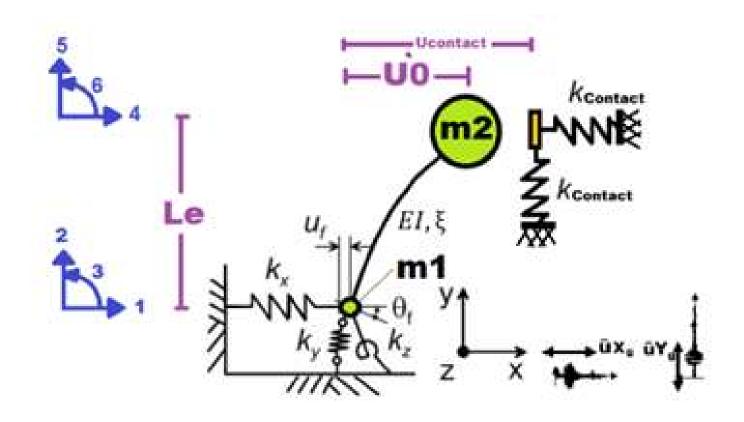
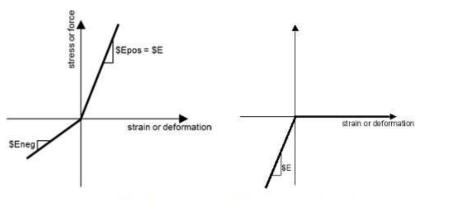
IN THE NAME OF ALLAH

DYNAMIC TIME HISTORY ANALYSIS EXTERNAL OBJECT CONTACT EFFECTS WITH SOIL-STRUCTURE INTERACTIONS VIA THE SPRING METHOD

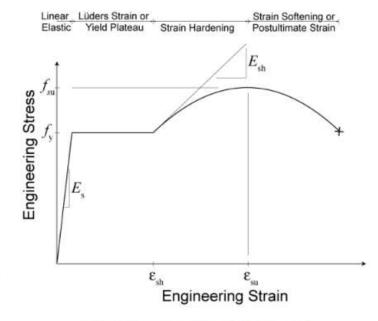
WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)



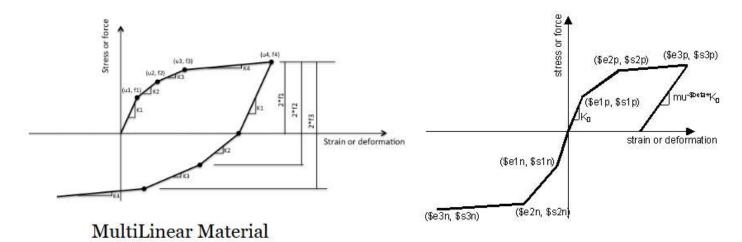


Elastic Uniaxial Material

Elastic-No Tension Material



Reinforcing Steel Material



Hysteretic Material

