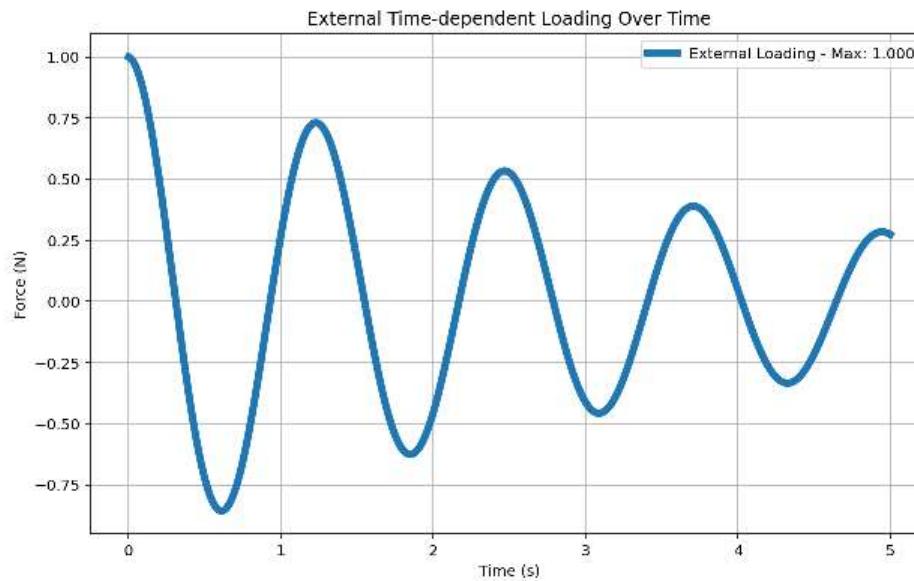
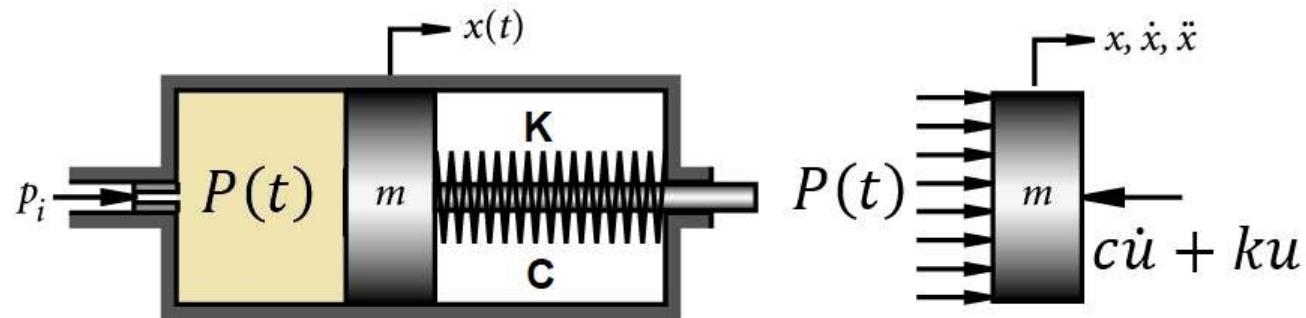


>> IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL <<

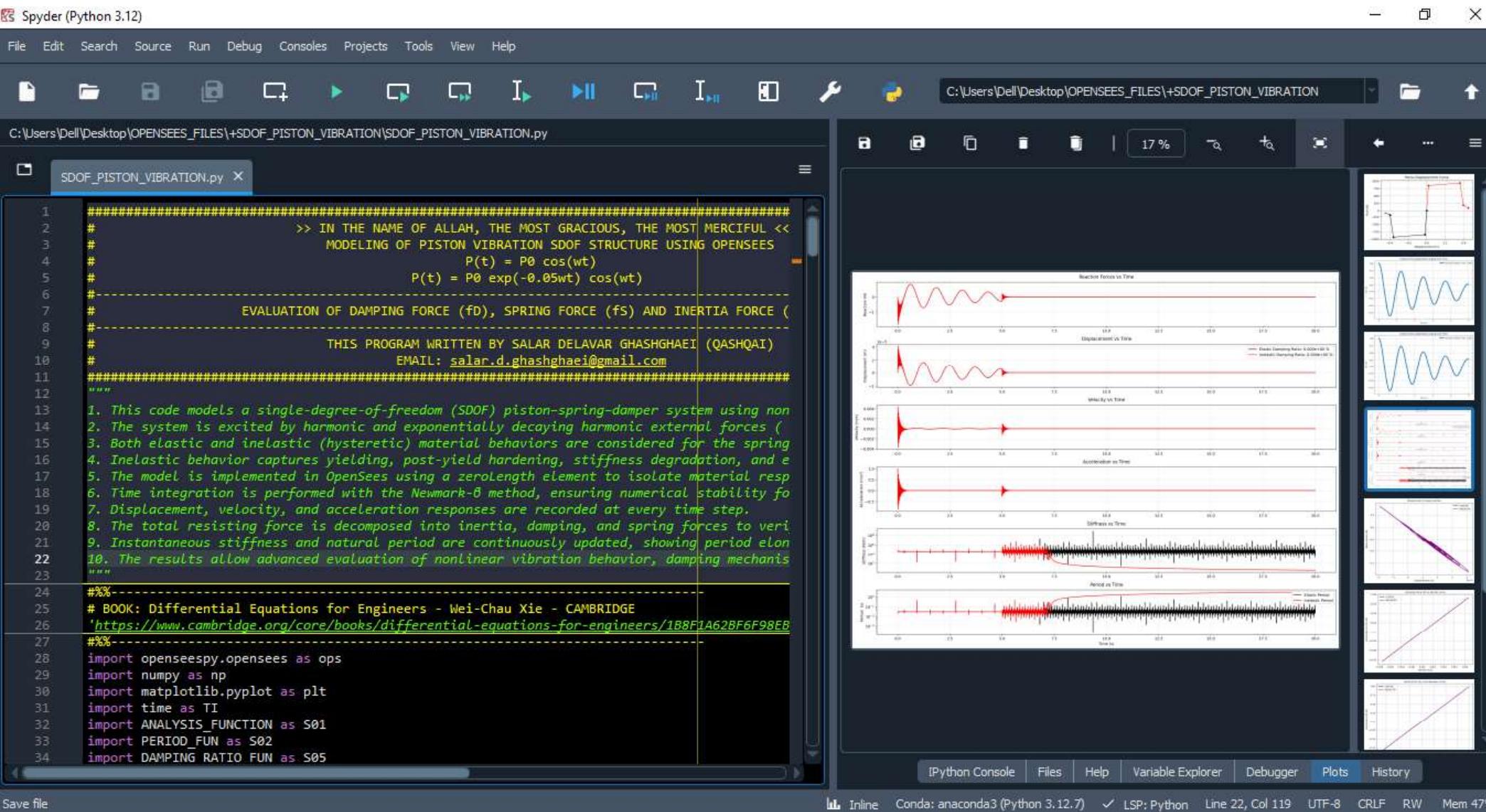
# MODELING OF PISTON VIBRATION SDOF STRUCTURE USING OPENSEES

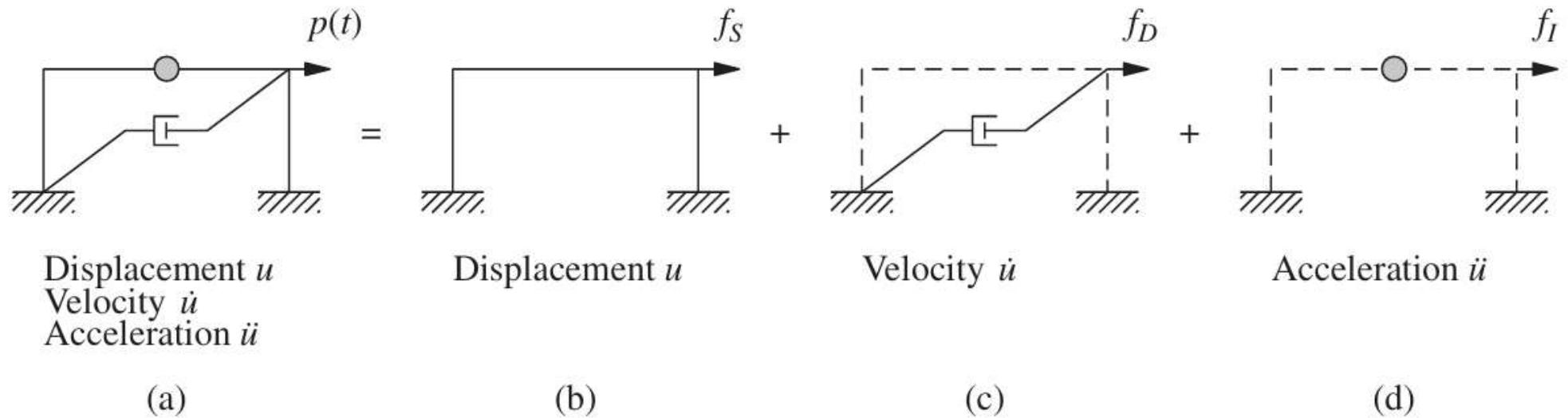
WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)



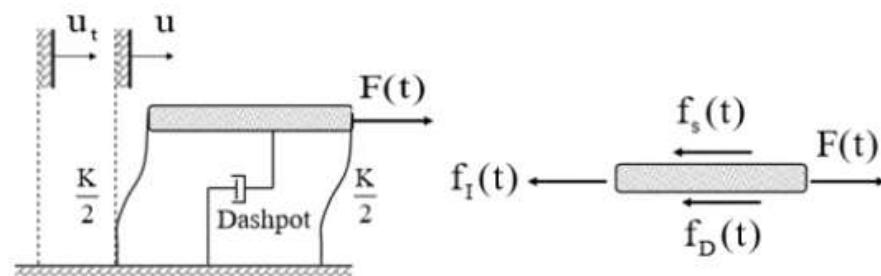
$$P(t) = P_0 e^{-0.05\bar{\omega}t} \cos(\bar{\omega}t)$$

$$m\ddot{u} + c\dot{u} + ku = P(t)$$





(a) System; (b) stiffness component; (c) damping component; (d) mass component.



### Force-Displacement Curve

