

The formula for deflection of beam is of the form  $k \frac{pl^n}{EI}$  where k is a constant p is load (UDL or point load) E is the young's modulus and I is moment of inertia of the section about z axis.

Except I, everything is known to user so he can provide the value of  $k \frac{pl^n}{E}$  in the given box of GUI. It will be used later to obtain the value of deflection.

There can be a number of possible combination of loads and it is incredibly difficult to calculate the value of deflection. So instead of Loads values, the value of this term is asked.