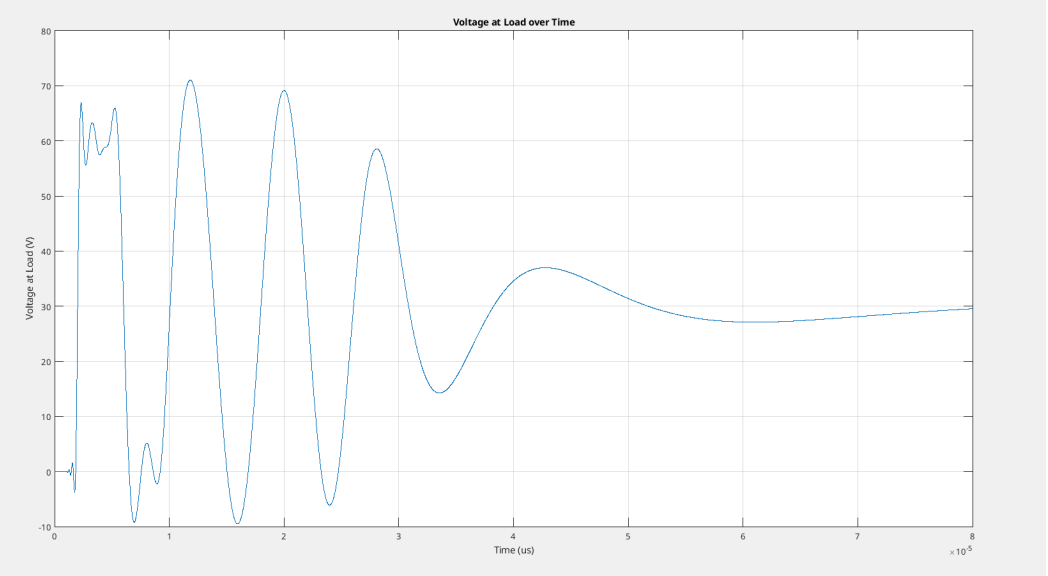
Implement NILT0 to approximate a transmission line

Name : Mohammed AL shuaili

1. The previous parameters were used for this approximation of a lossless transmission line. (R = 0, L= 2.5e-7, C = 1e-10, Vs = 30 volts)



This was achieved without considering the previous step and M was set to 13 while t from 0 to 80 ns. The result displays the voltage's oscillatory behaviour initially, with high peaks and damped oscillations as it stabilises towards a steady state after some time then settles approximately to 30 V.

2. Using the same input as the previous one but using h and adding the previous step to approximate the next approximation. (wrong implementation as the output over time was just zero).