

```
MATLAB CALCULATIONS
clc;
clear all:
pi=3.414;
L=10e-6;
c=3e8;
height=680e-9; %%%%%% height of the layer in Geometry %%%%%%%
        %%%%%% angle of incidence %%%%%%%
theta=30;
%%%%%%%% number of Time-steps (based on time of propagation) %%%%%%%
f=c/lamda;
omega1=2*pi*f;
tp=1/f;
delT=tp/10;
time_prop=abs(2*height/(c*cos(theta)));
N step=time prop/delT; %%%%%% Number of time steps required for full
propagation %%%%%%%%%%
t_final=delT*(N_step);%%%%%%% Cross check the propagation time and calculated time
%%% N_step(solver) <= N_step;</pre>
t solver=(N step-10)*delT;
time_array=[0:delT:t_solver];
incr=(delT/t_solver);
time_final=[0:incr:1];%%%%%% Final time array to be fed into the COMSOL solver%%
sprintf('%s %6f',incr)
```