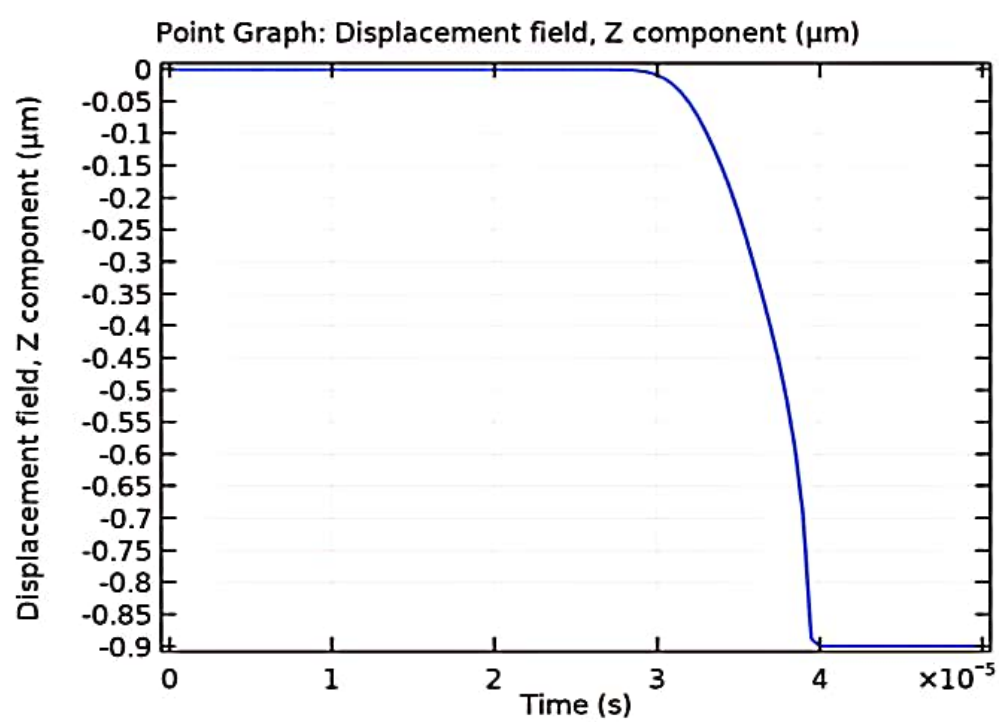


5.3 Time vs Capacitance



4.4 Time vs Displacement

5.1.1 Simulation Parameters

The following table lists the simulation parameters used in the analysis:

Name	Expression	Value	Description
V0	1[mV]	0.001	Initial voltage
Vstep	5[V]	5v	Voltage step
Insheight;	100[nm]	1E-7m	Insulator height
Air height	900[nm]	900	Air height
en	1e15[Pa/m]	1E15 N/m ³	Spring stiffness
tn	5e5[Pa]	5E5 Pa	Contact force

Table 5.1 Simulation Parameters

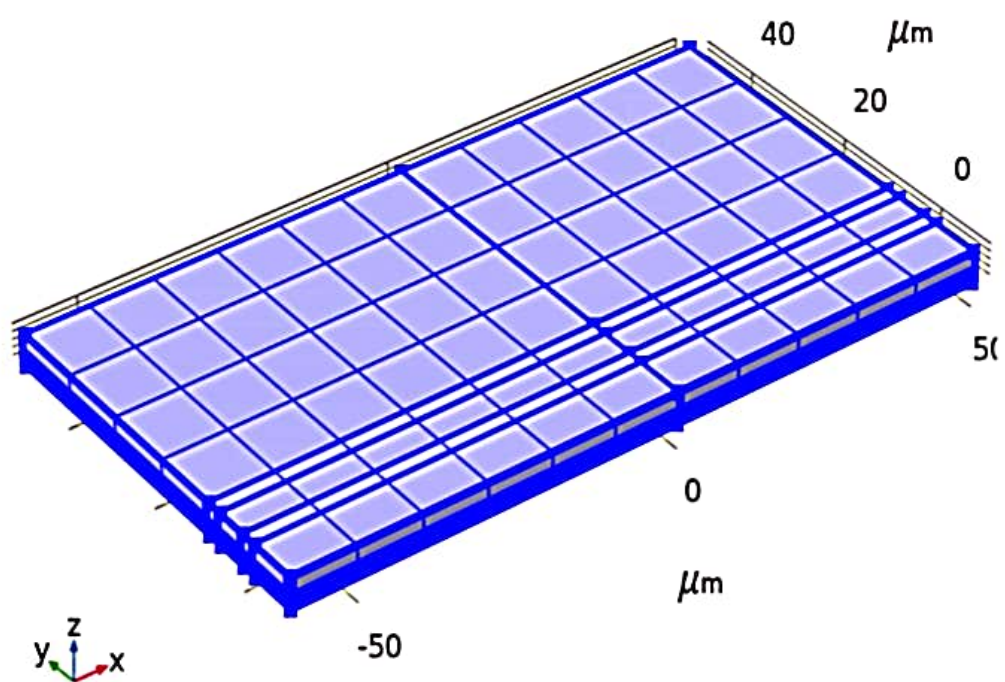


Fig 5.1 Electric Potential Distribution

Time=5E-5 s Multislice: Electric potential (V)

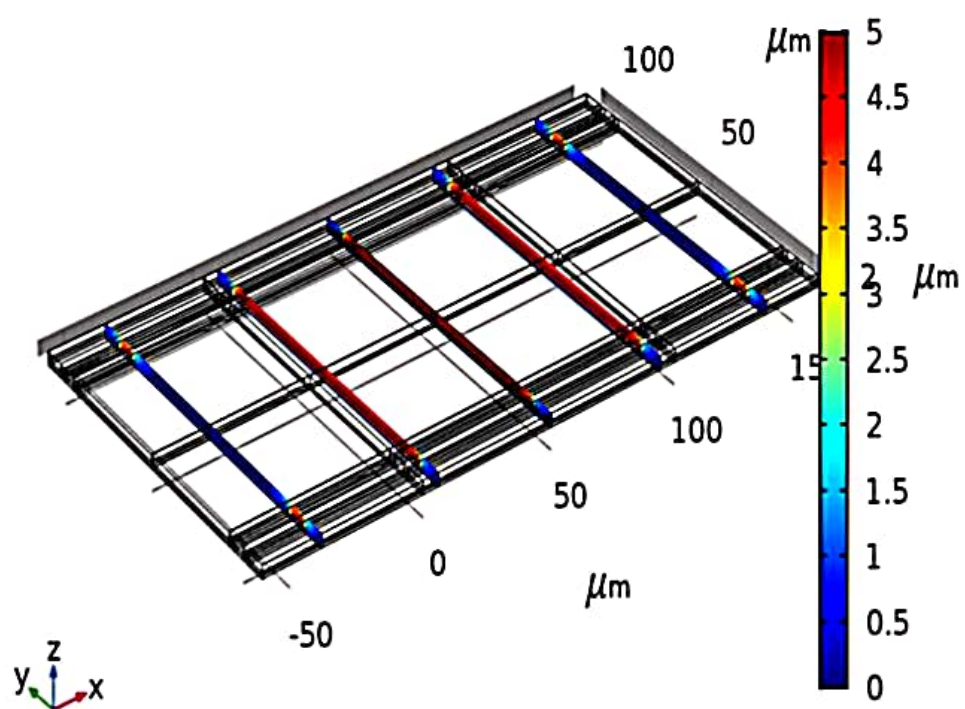


Fig 5.2 Structural Representation