

Question 12

Q: What is the representation of the electric potential boundary condition in harmonic and resonant analyses: peak-to-peak (P-P) or Root Mean Square (RMS)?

Can the phase be set to the electric potential boundary condition?

A: The representation is P-P. The phase can be set.

Please refer to the Femtet help menu below for more information.

Home>How to Set Body Attribute, Material Property and Boundary Condition>Boundary Condition Tabs>Electric Tab, and then select [Electric Solver [Coulomb] (except for static analysis or resistance) and piezoelectric analysis)].

Please refer to the next slide.

Additional Information

- The electric potential used as the boundary condition is represented in the form of peak-to-peak (P-P).
- For the capacitor on the lower left, electric boundary conditions of 5 [V] and -5 [V] are set to the upper and lower faces, respectively. In the harmonic or resonant analysis, the electric potential shown below is applied.
- For the capacitor on the lower right, an electric potential with a phase shift of 60° is applied.

