## 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.

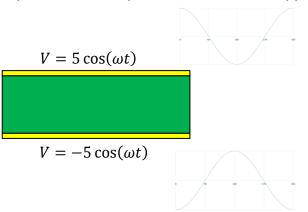
Home>How to Set Body Attribute, Material Property and Boundary Condition>Boundary Condition Tabs>Electric Tab, and then select [Electric Solver [Coulomb] (except for static analysis or resistance) and piezoelectric analysis)].

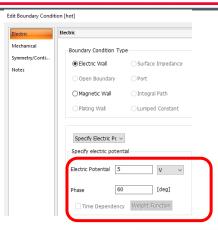
Please refer to the next slide.

## **Additional Information**



- The electric potential used as the boundary condition is represented in the form of peak-topeak (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.





$$V = 5\cos(\omega t + 60)$$



$$V = -5\cos(\omega t + 60)$$