

# Question 14

**Q:** How does the reference frequency work? What value is usually used?  
(Electromagnetic analysis/Hertz/Reference frequency)

**A:** On the [Mesh] tab in the [Analysis Condition Setting] dialog box, specify the frequency of interest for accuracy as the reference frequency. The reference frequency is used to determine the frequency-dependent parameters in an analysis.

\*The material properties of a frequency-dependent material depend on the frequency in an analysis.

\*Multiple reference frequencies may be set.

The screenshot shows the 'Mesh' dialog box with the following sections:

- Meshing Setup**
  - Mesh Size**
    - Set the general mesh size automatically
    - General Mesh Size:  [mm]
  - Element Type**
    - Tetrahedral Free Mesh
    - Tetrahedral-Free/Sweep Mesh
    - Hexahedral-Free/Sweep Mesh
      - Layer Structure
    - Equilateral triangle or close in shape on the body surface

- Meshing Control** (Setting)
- Adaptive Meshing**
  - Apply Adaptive Meshing (Setting)
- Frequency-Dependent Meshing** (highlighted with a red box)
  - Reference Frequency:  GHz
  - The conductor bodies thicker than the skin depth constitute the boundary condition.