

Question 4

Q: How is the magnetic analysis performed when the required data is out of the domain of the B-H curve table?
(Magnetic field/B-H curve)

A: When the required data is out of the domain of the B-H curve table, the data can be extrapolated using any method below.

1. Permeability of vacuum:

The data can be extrapolated using the value of permeability of vacuum, $\mu_0=4*\pi*1e-7$.

2. Slope between last two points:

The data can be extrapolated using the slope determined from the last two points in the table.

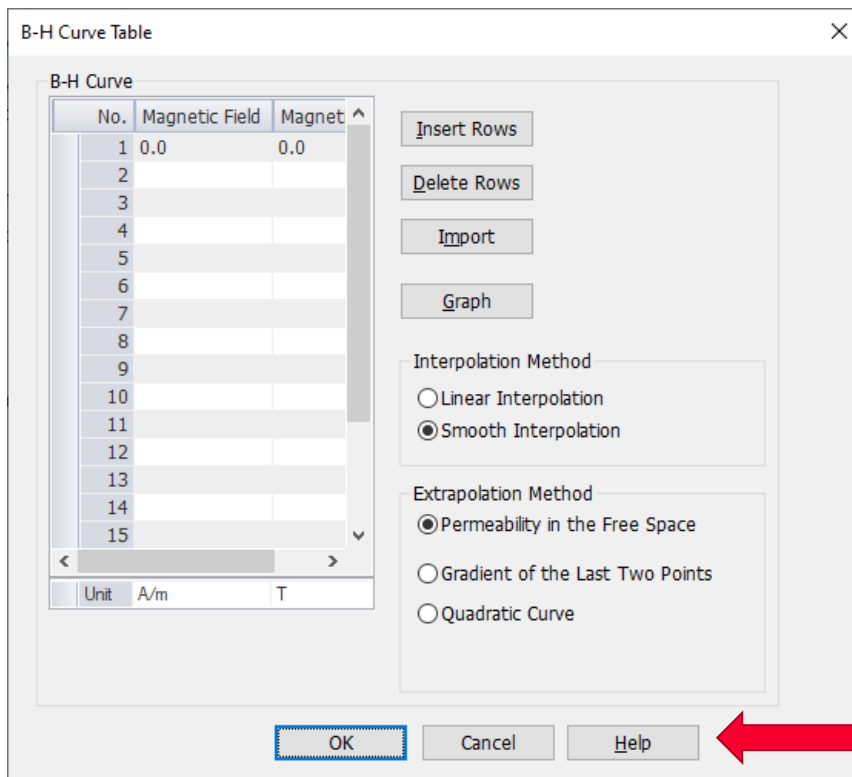
3. Quadratic curve:

If the data falls within the range up to saturated magnetization, it can be extrapolated using a quadratic curve. If the data falls outside the range, it can be extrapolated using the value of permeability of vacuum. To perform this extrapolation, specify the saturated magnetization, $M=B-\mu_0*H$ [T].

Please refer to the Femtet help menu below for more information on B-H curve tables.

Home>How to Set Body Attribute, Material Property and Boundary Condition>Material Property Tab>Permeability Tab

Additional Information



Click the [Help] button for more B-H curve information.