

Question 12

Q: What kind of loss can Femtet calculate? (Magnetic analysis/Loss)

A: Femtet can calculate joule loss, such as applied current loss and induced current loss (eddy current), and loss hysteresis loss. The type of calculable loss varies depending on the analysis condition. Please refer to the table in the technical notes below for more information.

Home>Technical Notes>Magnetic Analysis>Loss Calculation in the Magnetic Analysis

Analysis Type	Setting	Joule Loss Applied Current Loss	Joule Loss Induced Current Loss (Eddy Current Loss)	Hysteresis Loss
Static Analysis	---	Yes	No	No
Harmonic Analysis	Material without defining iron loss characteristics	Yes	Yes	No
	Material with defining iron loss characteristics (Iron loss table)	---	Yes (output as the iron loss (eddy current loss + hysteresis loss))	Yes
Transient Analysis	Material with defining iron loss characteristics (Iron loss empiric formula)	---	Yes	Yes
	Material without defining iron loss characteristics	Yes	Yes	No
	Material with defining iron loss characteristics (Iron loss table)	---	Yes (output as the iron loss (eddy current loss + hysteresis loss))	Yes
	Material with defining iron loss characteristics (Iron loss empiric formula)	---	Yes	Yes