

Question 13

Q: Can Femtet calculate electromagnetic force?
(Magnetic analysis/Electromagnetic force)

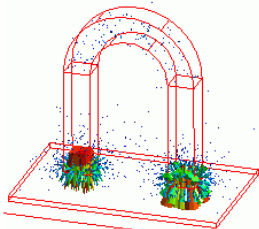
A: Yes, Femtet can do it. The electromagnetic force for a body is indicated in the result table.

Please refer to Example 4 of the magnetic analysis ‘Gauss’ on the Femtet help menu below.

Home>Examples>Magnetic Analysis (Gauss, Static Analysis/Harmonic Analysis)>Example 4: Magnetic Material Pulled by Horseshoe Magnet.

Please refer to Technical Notes on the Femtet help menu below for the note on calculating electromagnetic force.

Home>Technical Notes>Magnetic Analysis>Calculation of the Electromagnetic Force



Magnetic energy [J]	Electromagnetic Force [N]			FEM Info
	X component	Y	Z	Absolute value
mag1	-3.306e-2	-8.172e-3	-2.097e+0	2.098e+0
mag2	9.980e-3	-2.432e-3	-2.295e-2	2.514e-2
mag3	1.859e-2	3.652e-3	-2.104e+0	2.105e+0
softmag	-2.660e-4	8.287e-3	4.194e+0	4.194e+0

(Example 4)