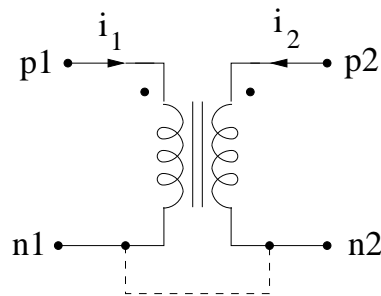


xfmr_basic_1.ece



Attributes

mainnodes: p1 n1 p2 n2

rparms:

+ l1=1m

+ l2=1m

+ k=1

Description

xfmr_2w_1.ece is a basic transformer without coil resistances and leakage inductances. The parameters have the following meaning:

l1: Self inductance of the first coil.

l2: Self inductance of the second coil.

k: Coupling coefficient.

The dashed connection between the two sides (see figure) should be made *externally* in the circuit file if there is otherwise no connection between the two sides. Alternatively, the nodes **n1** and **n2** could be given the same node name, which will automatically force such a connection.

This is required because the circuit as a whole can have only one reference node. If the two sides are completely isolated, a part of the circuit will remain floating, leading to a singular matrix.

The dashed wire does not change the circuit behaviour since it does not carry a current, there being no return path.

AC behaviour is not implemented.