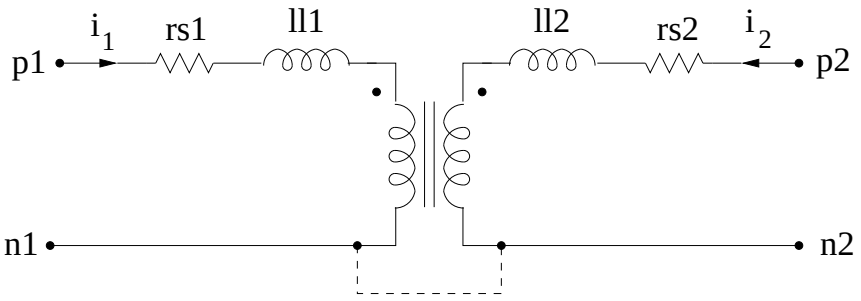
xfmr_2w_1.ece



Attributes

```
  mainnodes: p1 n1 p2 n2
  rparms:
+   l1=1m
+   l2=1m
+   k=1
+   rs1=0.1
+   rs2=0.1
+   ll1=0.01m
+   ll2=0.01m
```

Description

`xfmr_2w_1.ece` is a transformer with 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 meaning of the parameters `rs1`, `rs2`, `ll1`, `ll2` is clear from the figure.

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.