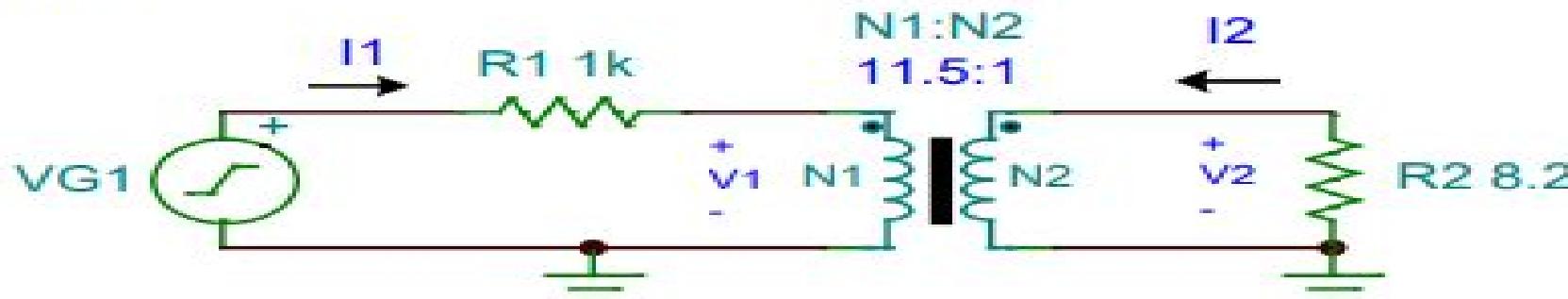


Lab Fundamentals II – Lab 2: Transformers

Pre-Lab Assignment

Consider the following transformer circuit assuming an ideal transformer. In this circuit the signal generator will provide a 10-Volt peak-to-peak sinusoidal signal at a frequency of 1.0 kHz. Assume that $L_1 = 0.65 \text{ H}$, $L_2 = 0.00492 \text{ H}$ ($=4.92 \text{ mH}$) and that the coupling constant $\langle k \rangle = 0.99925$.



1) Find the following using the theory presented in the prelab reading:

- Start with Equations (2) of the prelab reading and show that the input impedance to an ideal transformer is given by the equation for Z_1 ($= V_1/I_1$) in Equations (4) of the prelab reading.

Equations (2) are: $V_1 = j\omega L_1 I_1 + j\omega M I_2$ and $V_2 = j\omega M I_1 + j\omega L_2 I_2$

The equation for the input impedance is: $Z_1 = \frac{V_1}{I_1} = j\omega L_1 + \frac{(\omega M)^2}{j\omega L_2 + Z_L}$

- Assuming that Z_L is a real impedance, find the equations for the real and imaginary parts of Z_1 .
- Use your equations from part (b) to calculate the value of the input impedance (Z_1) at an operating frequency of 200 Hz. Assume that the load impedance is 8.2 Ohms (characteristic of an audio speaker) and completely real. Find both the real and imaginary parts of Z_1 .
- Repeat part (c) at an operating frequency of 5 kHz
- Calculate the voltages V_1 and V_2 at 5 kHz
- Calculate the currents I_1 and I_2 at 5 kHz
- Calculate the amount of power supplied by the signal generator, VG1, and the amount of power dissipated in each of the two resistors in the circuit at 5 kHz.

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K Payea

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