



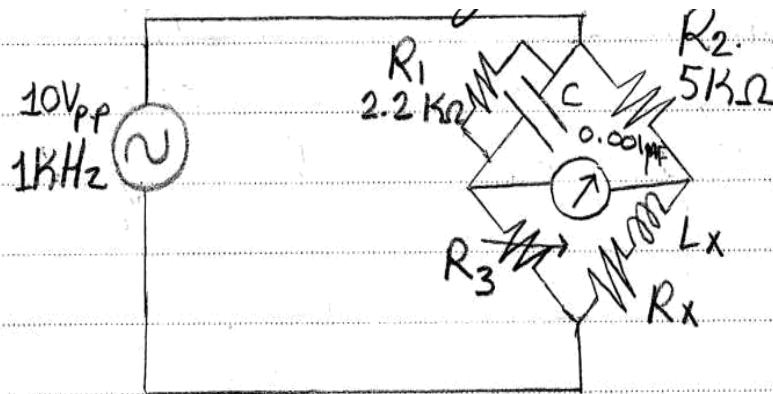
Instrumentation and Measurements

Experiment 13

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EXP:10

Maxwell Bridge



$$L_x = R_2 R_3 C$$

$$R_x = R_2 \frac{R_3}{R_1}$$

	G	AVO.	OSC.
R_3	$1k\Omega$	$1k\Omega$	$1k\Omega$
R_x	$2.27k\Omega$	$2.27k\Omega$	$2.27k\Omega$
L_x	$5mH$	$5mH$	$5mH$

$$R_x = 1k\Omega * \frac{5k\Omega}{2.2k\Omega} = 2.27k\Omega$$

$$L_x = 5k\Omega * 1k\Omega * 0.001\mu F$$

$$L_x = 0.005H = 5mH$$