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Experimental Question 1: Levitation of Conductors in an Oscillating Magnetic Field

ANSWER FORM

a. Expression for $\epsilon(t)$:

Expression for $I(t)$:

b. Expression for B_r in terms of r and $d\Phi_B/dz$:

c. Magnitude of α :

d. Circuit diagram:

The resistance R_{thin} of the thin ring:

e. The resistance R of the broad closed ring:

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i. The inductance L of the broad closed ring:

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Experimental Question 2: An Optical "Black Box"

ANSWER FORM

a. Expression for γ :

b. Choose the correct option (A, B, C or D):

c. The angle φ for the sample:

d. Choose the correct option (A, B, C or D):

e. The deflection angle δ_0 for perpendicular violet light:

f. The minimal deflection angle δ_{min} for violet light:

g. Expression for the refractive index n :

h. The refractive index n_v of the sample in violet light:

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[illegible]

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