University College Dublin

An Coláiste Ollscoile, Baile Átha Cliath

PHYC20090 Electronics and Devices

Experiment No.7 Sinusodial Response of the LCR Resonant Circuit

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by Joana C.C. Adao (Student No. 23311051)

With Arminas A., Ananya L., Samuel S.

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Abstract

The aim of this experiment was to

1 Theory

1.1 LCR Circuits

An LCR circuit is made up of inductors (L), capacitors (C), and resistors (R), usually connected in series. Since all the components of the circuit are connected in series, equal amount of the current will flow through each element. [1]

1.1.1 Inductance, Capacitance, Resistance

1.2 Wave Properties

1.2.1 Resonance

2 The Procedure

3 Results and Calculations

4 Conclusion

5 Expansion on the Experiment

References

[1] Unacadamy, "Resonance in an lcr circuit," May 2022. [Online]. Available: https://unacademy.com/content/neet-ug/study-material/physics/resonance-in-an-lcr-circuit/

Appendix

Raw Data