Electronics Lab Course Experiment #0: Introduction and Preparational Experiment

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April 11, 2015

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1 Aims of the experiment

2 Theoretical background

3 Preperational exercises

0.2.1.A

$$U(t) = U_0 \cdot \sin(\omega t)$$

$$U_{PP} = 2 \cdot U_0$$

$$U_P = U_0$$

$$U_{RMS} = \frac{U_0}{\sqrt{2}}$$

0.2.1.B

For a symmetrical rectangular voltage¹

$$U_{RMS} = 0$$

0.2.2.C

¹In this case with $U_P = 10 \,\mathrm{V}$

4 Experiment set-up

Procedure

6 Measurement

Evaluation

8 Conclusion