Wroclaw University of Science and Technology

GENERAL PHYSICS LABORATORY REPORT

Theme of class: OHM'S LAW FOR ALTERNATING

 ${\rm CURRENT}$

Students: Date of class: 2023-03-14

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1 Introduction

1.1 Theory

1.2 Equipment

The equipment used in this experiment included:

- Monochromator
- DC ammeter Sanwa CD771
- DC voltmeter Sanwa CD771
- Illuminator
- $\bullet\,$ DC power supply for the illuminator
- ullet Photocell power supply

1.3 Goals

Experiment $\mathbf{2}$

- Measurements of the spectral characteristics of the photocell 2.1photocurrent
- 2.2 Measurements of current-voltage characteristics
- 2.3 Uncertainties

Amperemeter uncertainty -(400 μ A 400mA) = ±(1,4 % rdg + 3dgt)

$$u(i) = \frac{\Delta_p i}{\sqrt{3}} \tag{1}$$

$$u(i) = \frac{\Delta_p i}{\sqrt{3}}$$

$$\Delta_p i = \frac{a}{100\%} i + n \cdot \Delta_{res} =$$
(2)

 λ_o

3 Conclusion

In conclusion,...