Semiconductor lab

 $\begin{array}{c} Author \\ \text{Fredrik Bergelv} \\ \text{fredrik.bergelv@live.se} \end{array}$



Abstract

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Fredrik Bergelv 3 EXPERIMENT

1 Introduction

Semiconductors

2 Theory

3 Experiment

Main goal: explain what you did with enough detail so the reader could reproduce it Include the equipment used, quantities you measured (if relevant also the accuracy of the equipment), procedures you followed Diagrams (e.g. scheme of the circuit) can be included Please do not include results here!

3.1 Part 1

During the first part of the lab we messured

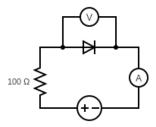


Figure 1: This figure...

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3.2 Part 2

3.3 Part 3

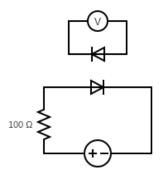


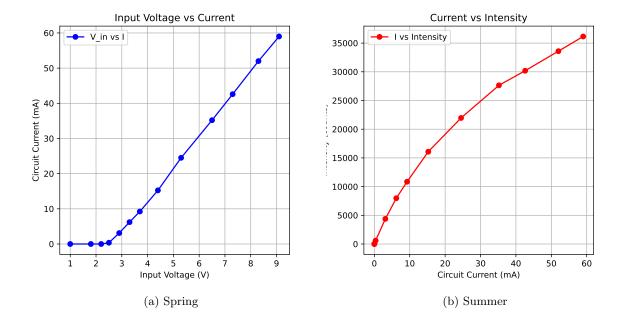
Figure 2: This figure...

4 Result

4.1 Part 1

Wavelength white LED: 454.17 nm integration time 70 ms averaging every 10th measurements

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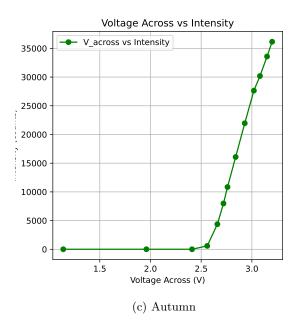


Figure 3: Histograms for different seasons.

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4.2 Part 2

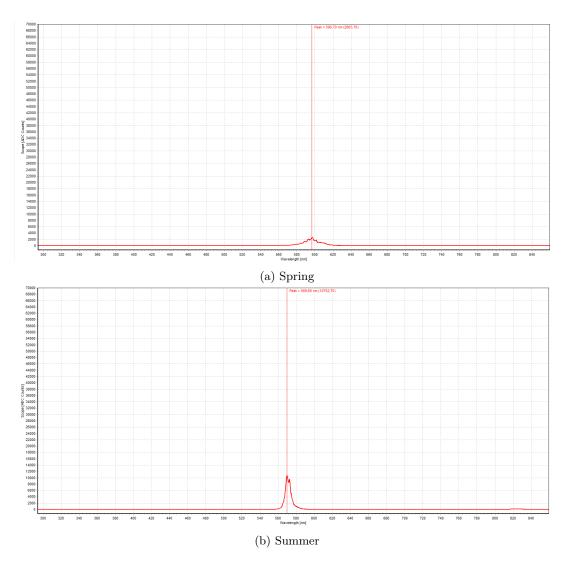


Figure 4: ...

Wavelength white LED: 596.85 nm integration time 2 ms averaging every 10th measurements

Before: $V_{\rm in}$ was 5.0 V, $V_{\rm across}$ 2.06 V, $I_{\rm circuit}$ 30.8 mA and the intensity 2663.70

After: $V_{\rm in}$ was 5.0 V, $V_{\rm across}$ 4.44 V, $I_{\rm circuit}$ 7.7 mA and the intensity 10752.70

4.3 Part 3

Detector/Emitter	Red	Green	Blue
Red	Output	No output	No output
Green		Output	No output
Blue		Output	Output

Table 1: tab:part3

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- 5 Discussion
- 6 Conclusion