

Assignment 3 : Data Estimation

Abhinav I S, EE23B002

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Abstract

1 Introduction

The data given to us in the experiments, corresponds to the spectral radiance per unit wavelength. We are expected to estimate the various parameters by curve fitting this data.

The equation for spectral radiance per unit wavelength is given by

$$B_{\lambda}(\lambda, T) = \frac{2hc^2}{\lambda^5} \frac{1}{e^{\frac{hc}{\lambda k_B T}} - 1}$$

2 Methodology

2.1 Plotting

I begin by plotting each dataset given to us, this can be done by running the corresponding codeblocks in the notebook

3 Results

Present the findings of your assignment. Use tables, figures, and charts if necessary to illustrate your results.

4 Discussion

Discuss the implications of your results. Interpret the findings and relate them to your objectives.

5 Conclusion

Summarize the main points of your assignment and any conclusions you have drawn.

6 References

Include all the sources you referenced in your assignment. Use the appropriate citation style as required by your assignment guidelines.