



ZJU-UIUC INSTITUTE

Zhejiang University-University of Illinois at Urbana-Champaign Institute

浙江大学伊利诺伊大学厄巴纳香槟校区联合学院

ECE xxx

COURSE NAME

REPORT OF PROJECT #1

A SAMPLE FOR REPORTS WITH ANY TITLE YOU WANT

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First LAST and Sample NAME

September 14, 2023

1 Introduction

2 Problem statement

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3 Importance



Figure 1 The logo of ZJU-UIUC Institute.

4 Literature Review

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$$f(x) = \sum_{n=0}^{\infty} \frac{1}{n!} f^{(n)}(x_0) (x - x_0)^n, x \in U(x_0) \quad (1)$$

$$\begin{aligned} e^{ix} &= 1 + ix + \frac{1}{2!} (ix)^2 + \frac{1}{3!} (ix)^3 + \cdots \frac{1}{n!} (ix)^n + \cdots \\ &= 1 + ix - \frac{1}{2!} x^2 - i \frac{1}{3!} x^3 + \frac{1}{4!} x^4 + i \frac{1}{5!} x^5 - \cdots \\ &= \left(1 - \frac{1}{2!} x^2 + \frac{1}{4!} x^4 - \cdots \right) + i \left(x - \frac{1}{3!} x^3 + \frac{1}{5!} x^5 - \cdots \right) \\ &= \cos x + i \sin x \end{aligned} \quad (2)$$

5 Methodology

Test the ability to print some units, say (in texts), $10 \times 10^5 \mu\text{m} \cdot \Omega \cdot ^\circ$.

It also applies to equations,

$$R_t = 10 \times 10^5 \mu\text{m} \cdot \Omega \cdot ^\circ \quad (3)$$

6 Results

7 Discussion

8 Conclusion

References

- [1] Y. Li and J. Fang, “测量半导体中少子漂移迁移率和扩散长度的新方法 [New Method of Determining Excess Carrier Bipolar Mobility],” *半导体学报 [Chinese Journals of Semiconductors]*, vol. 20, no. 12, pp. 1129–1131, Dec. 1999. [Online]. Available: <http://www.jos.ac.cn/fileBDTXB/oldPDF/2005092734449173.pdf>.
- [2] J. R. Haynes and W. Shockley, “The Mobility and Life of Injected Holes and Electrons in Germanium,” *Physical Review*, vol. 81, no. 5, pp. 835–843, Mar. 1, 1951. DOI: 10.1103/PhysRev.81.835.
- [3] J. A. Prufrock, *Lasers and Their Applications in Surface Science and Technology*, 2nd ed. New York, NY: McGraw-Hill, 2009.
- [4] J. R. Haynes and W. Shockley, “Investigation of Hole Injection in Transistor Action,” *Physical Review*, vol. 75, no. 4, pp. 691–691, Feb. 15, 1949. DOI: 10.1103/PhysRev.75.691.

A Sample Appendices