

# $\begin{array}{c} \textbf{Report for Experiment } \# \textbf{N} \\ \textbf{Lab Name} \end{array}$

Name
Lab Partner: Name
TA: Name
Date

### **Abstract:**

Summarize motivation and main results.

#### **Introduction:**

Sample equations,

$$\vec{\nabla} \cdot \vec{E} = \frac{\rho}{\varepsilon_0} \tag{1}$$

$$\vec{\nabla} \cdot \vec{B} = 0 \tag{2}$$

$$\vec{\nabla} \times \vec{E} = -\frac{\partial \vec{B}}{\partial t} \tag{3}$$

$$\vec{\nabla} \times \vec{B} = \mu_0 \left( \vec{J} + \varepsilon_0 \frac{\partial \vec{E}}{\partial t} \right) \tag{4}$$

Within report reference as  $[Equation \ n]$ .

#### Investigation 1:

Sample derived equation,

$$z = f(x_1, x_2, ..., x_n)$$
  $\Rightarrow$   $\delta z = \sqrt{\sum_{i=1}^n \left(\frac{\partial f(x_1, x_2, ..., x_n)}{\partial x_i} \delta x_i\right)^2}$ 

Sample table,

$$\vec{F}_E = \frac{1}{4\pi\varepsilon_0} \frac{qQ}{r^2} \hat{r} \quad \rightarrow \quad \vec{E} = \frac{1}{q} \vec{F} \quad \rightarrow \quad \vec{E} = \frac{1}{4\pi\varepsilon_0} \frac{Q}{r^2} \hat{r}$$

$$\uparrow \qquad \qquad \downarrow \qquad \qquad \qquad$$

Figure 1: Random Table

Sample figure,

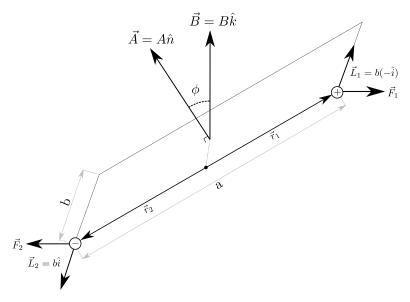


Figure 2: Random Figure

Sample code,

```
def fibonacci(n):
    if n <= 1:
        return n
    else:
        return(fibonacci(n-1) + fibonacci(n-2))</pre>
```

Figure 3: Random Code

# **Conclusion:**

# Questions:

1. Question 1

# References:

- 1. Table Generator LATEX, helpful if converting Excel Data
- 2. Northeastern IPL Straight Line Fit Calculator