Mini Project - I Report

Sai Krishna Dasari
dsaikrishna703@gmail.com

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Contents

1 Description

This Section Contains the abstract of the Mini Project-I.This Section Contains the abstract of the Mini Project-I.This Section Contains the abstract of the Mini Project-I.This Section Contains the abstract of the Mini Project-I.This Section Contains the abstract of the Mini Project-I.This Section Contains the abstract of the Mini Project-I.This Section Contains the abstract of the Mini Project-I.

Figure 1: SURE Trust Logo

1.1 Key Points

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1.2 Key Points

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1.3 Key Points

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2 Block Diagram

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3 Inputs and Outputs

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4 Mathematical Equations

The Pythagorean theorem states that for any right triangle with legs of length a and b and hypotenuse of length c, we have:

$$a^2 + b^2 = c^2$$

The quadratic formula can be used to solve any quadratic equation of the form $ax^2 + bx + c = 0$:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

The Taylor series expansion of the exponential function is:

$$e^x = \sum_{n=0}^{\infty} \frac{x^n}{n!}$$

The Fourier series expansion of a periodic function $f(x)$ with period $2L$ is:

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right)$$