Lab 2 Report

Graph 2.1

For R = 3.4 kΩ

Graphical user interface, chart

Description automatically generated

For R= 1.4kΩ

Chart

Description automatically generated

For R = 0.5 kΩ

Chart

Description automatically generated

Table 2.1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| R | T | V0(T/4) | V0(3T/4) | σ | ω |
| 3.4 kΩ | 135.4 us | 3.875 v | -3.18 v | 2919.7 | 46404.6 |
| 1.4 kΩ | 173.3 us | 6.565 v | -0.374 v | 33061 | 36256.1 |

Graph 2.2

Table

Description automatically generated

Table 2.2

A = 9.9 v 𝜏 = 33.14 us

Graph 2.3

For R = 10 kΩ

Chart, line chart

Description automatically generated

For R = 1.4 kΩ

Graphical user interface, application

Description automatically generated

For R = 1 kΩ

Graphical user interface, application, table

Description automatically generated

Table 2.3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| R (k) | T | V0(T/4) | V0(3T/4) | σ | ω |
| 10 | 133.52 us | 16.878 v | 4.8 v | 18827 | 47057 |

Graph 2.4

Graphical user interface, application, table

Description automatically generated

Table 2.4

A = 9.96 v 𝜏 = 40.5 us

Graph 2.5

Chart, line chart

Description automatically generated

Table 2.5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| R (k) | T | V0(T/4) | V0(3T/4) | σ | ω |
| 8 | 141.4 us | 4.793 v | -3.247 v | 5508 | 44436 |

Graph 2.6

Chart

Description automatically generated with medium confidence

Table 2.6

A = 9.9v 𝜏 = 80.68 us