Laboratory #10 Report

Class:

Name: Student ID:

1. Exploration 1
2. Deadband=\_\_\_\_\_\_\_V
3. Input/output voltage waveform
4. Calculation of the efficiency

Table 10.1

|  |  |
| --- | --- |
| **Input power** | |
| Supply current |  |
| Supply voltage |  |
| **Output power** | |
| Load resistance |  |
| (1/2)Output Vpp |  |
| **Efficiency** |  |

1. Exploration 2
2. Output vs. input voltage waveform
3. Change RB1 into 10Ω, and shows output vs. input voltage waveform
4. Problem 1

Briefly explain the crossover distortion occurred in class-B output stage, and why class-AB can eliminate the distortion?

1. Bonus

In Fig. 10.5, the class-AB output stage, what is the physical meaning of RC1/RC2, and RE1/RE2?

1. Conclusion