

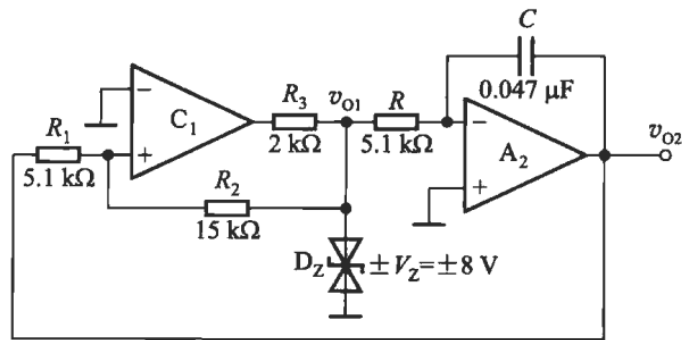
Homework for Chapter 10

Xiping Hu

<https://hxp.plus/>

May 31, 2020

10.8.9 图题 10.8.9 所示电路为方波-三角波产生电路,试求出其振荡频率,并画出 v_{o1} 、 v_{o2} 的波形。



图题 10.8.9

1 Problem 1

$$v_{o2m} = \frac{5.1}{15} \cdot 8 \text{ V} = 2.72 \text{ V}$$

$$\frac{1}{C} \int_0^{T/2} \frac{V_Z}{R} dt = 2v_{o2m} \Rightarrow T = 4RC \cdot \frac{v_{o2m}}{V_Z} = 0.000325992 \text{ s} \Rightarrow f = 3067.56 \text{ Hz}$$

2 Problem 2

