

Chapter 7, Problem 85.

A simple relaxation oscillator circuit is shown in Fig. 7.145. The neon lamp fires when its voltage reaches 75 V and turns off when its voltage drops to 30 V. Its resistance is $120\ \Omega$ when on and infinitely high when off.

- (a) For how long is the lamp on each time the capacitor discharges?
- (b) What is the time interval between light flashes?

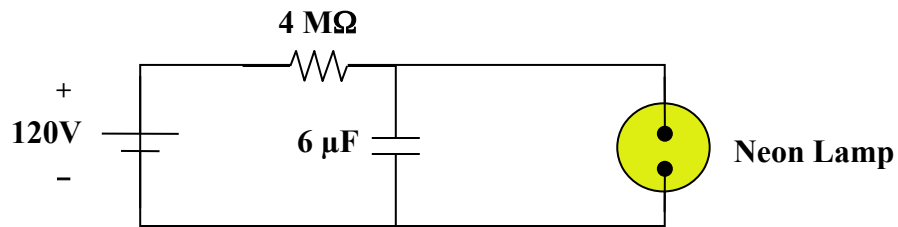


Figure 7.145
For Prob. 7.85.