第一章课后作业

[1-8]解:元件的吸收功率

P=ui=(75-75e-1000t). 50e-1000t = 3750 e lont (1-e lont) W

1) t=0.1ms PJ, P=3/50 (e-0.1-e-0.01) W=322.9W

(2) dp = 375×10 e Torot (2e torot -1)

全 年=0 別 t=62×10-3 s≈ a 697ms

MBJ PMAX = 3750x = XZ = 937.5 W

(3)全P=3750e-100tU-e7000t)=0 例t=0或 [1-19]

、お咳むつ时吸收功率为0

= 12=441=0.04A

对结点(D的KCL 方程: j+拉+1/00 -j=0

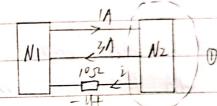
(1) = -4V

12) P2=U212=-0.16W 即吸收-0.16W

13) II= 4=02mA

独立电源吸收功率 P=-10订= -2/W

二发出功率为2/UW



14) W= S. 4500 1000t (1-e-1000t) dt

=100t=x 5-2-75 & (1-ex) dx = 1.875]

解:对了义结点(D: 1A+1-3A=0

1.1=2A

U=10]=20V

[10]解: 1) W=UIt=12Vx 1000mAx 1h

=4.32X104]

(2) $t = \frac{W}{P} = \frac{4.32 \times 10^4 \text{J}}{0.25 W} = 1.728 \times 10^5 \text{ S}$

I = \frac{9}{4} = \frac{2600 C}{1720 \times 5} = 2.08 \times 10^2 A

(001mAh

My 42400 (190×100x 43/10

解:对图中4个结点可到3个KCL方程:

が佐点の11+3-15=0

Q 11th-12=0

13+16-14=0

取认证证作助变量则解得:

15=15-11, 14=15+76-11, 1=15+14

1092 Uz

KUL为程:

双例孔0, -10mV+U=0 :U=10mV



|扫描全能王 创建

