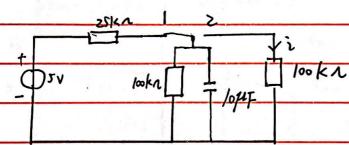


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开关S原在1已久,tio时台向位置 2、ずUcto)

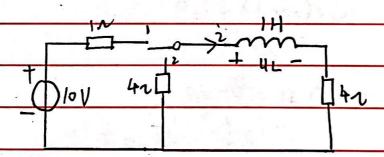


3)! Uc(0+) = Uc(0_) = 5x5 = 4V.

t>o时 昭两场的等效电阻为 Jokn

以时间常数 $\tau = ke_{f}C = 50 \times h^{3} \times 10 \times 10^{-b} = \frac{1}{2}$ 故电容电压为: $Uc(+) = Uc(0+) \cdot e^{-\frac{1}{2}} = 4e^{-2t}V$

开关5在位置 12久, t=0时合向位置 2. 求换路后的1(t)和 (L(t)



2) · i(0+)=i(0-)=2A

t>0后电路两端的多数电阻 Rq:4+4=81.

极时间常设T= == 1H = 1

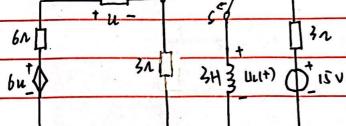
 $i(t) = i(0t) e^{-\frac{t}{\tau}} = 2e^{-8t} A$

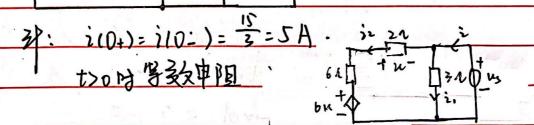
-'. 41(+)=Ldt = L2-e-8t.(-8) = -16e-8t V

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开关原台在位置 1. t= 0时开关的位置 1. 信仰位置 2. 求电路电压 LLL(+)



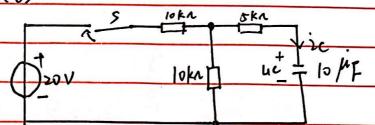


:.
$$\mu = -2i_1 = -2(i - \frac{\mu_5}{3})$$

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开关与闭合剂,电容电压 40为0,在七0时与闭合, 水七>0时 Uc(t) \$ ic(t)



Uc(a) = 20 x = 10 V.

Reg= 5+5=10KN.

== Req. C = lox/o3 x /0x/o-b = 105

:. U(+)=10(1=e-lot)V :- 2(+)= (...d+=lotxloxe-lot=0.1e-lot m/)