Ø7-16. 1.(0)=1.10-)= 24 444=3A /Reg=6sl T= = 80 0.55 1(0)= 24 4+44 × 1) 4+x = 2A ir(t)=j(0)+(i(0+)-j(10))e-= =2A+(3-2)e-2tA =2-e-2t A UC-L-07 = 60-21 V Up= U-Uc- Gil =16-20-2t/ i= UR=4-0.5e-26A P= Vi=96-12e-2t W UCLO)=UCLO-)=OV 1L(0")=iL(0")= 9x 3+6= 1A Uc(0)= 3 × 2+1=2V, UC= Uclo)+(Uclo)-Uclo)/e- PC=)(1-000)V ic(8)= 3A int)= i(0)+(i(0)-i(10))e-t==0) 3(1+e-0+)A UL(t)=1.01=0-27e-9t · U(t)=thest Uc(t)- (1clt) - to (3) =[2(1-e-3t) +11e-9t]V

7-20 Q 14(07)=14(07)=-8=-4A 1000 当七100 12-17-4= 41,+21, 11=0.8 iup)=2-1=1.2A R= 81721 = 10s I= = 0.015 -- ic= i(0)+(i(0)-i(0)e-2 = 1.2 65-52-e-loot UL=L.dj - 52- 0-100+V - UC-UR-UL=0 P2+10/1+16=0 -: Uc=A, e-2t+A, e-8t/

Uc(0-)= Uc(01) = 6V C duc(D) = 1(0+)=0 联婚智 41=8,1=-2 -: Uc=(8e-2t -2e-8t)V i(t)=-C duc = 41e-2t -e-8t)A (2). 易知, 电路线效分标程为 LC duc + chaus +uc=0 的临界阻尼即 C'R'-41C=0 R= N410 =21 ... 电阻应为2几 7-23: Uc(0+)=Uc(0+)= 50 X 5+5=25V 1,10+)= 1110-)= 50 = JA 11=-Cduc-1X10-4UCV Un= Ldic = - CL duc - -5 Xlo-52 Uc -25/L-UL=0 D= - (\frac{k_1 t R_1}{2L}) \pm - \frac{t}{L} = -25 \pm 139.19) Uc=Ae-25tsin(139.19++0)

Uc (0+)=Asin ==25 16 (0+)=+3111 0-25 16 (01) = -C duc(01 = -Q (-25Asin+ 139.19 Acoso)=5 B = arcian (8-50) =-4.03° A = 25 = -355.61 ·· Uctl=-355.61e-25t sin (139.13t -4.03°)V 7-26 1.(07)=110-)=0 U(0+)=40=59 Uc(0)=4V il- cduc UL= L. St.=LC dtk 6=211:+ Uc+UL 0-200c to-4 duc + Uc=6 duc + 2 duc + 5uc=30 特征方程: p1 +2p+5=0 D= -4+41=12jd-1 - · Uc(t)=Ae-stsin(W118) 其中S=1,W=2 +6 ·· Uc(a)=40 A Sin0=4V 12(01)= C du = C(-SASIND+WA) COSD)= 0 B-arccan = = arccan2 = 63.43°

A= 4-6 5711(63.43°) =-2.236 -. udt)= Uc'+Uc"-[b-2.23e-tosin(2t+63.43°)]V 7-32. 11) 当 t如G(0,2) Uc(07=Udo-)=0 Uc(0) = 10/0V U(t)= Uc(v)+(U((0))-Uc(v))e-1/c $= |0(1-e^{-100t})V| te(0,2)$ 当t=2,6ctd) (1c=10(1-e-200)V 当 tE(2,3) Vetor' (10(1)= (0(1-e-200)V Uc(0) = -20V Uc = Uc(Q)' + (Uc(2) - Uc(Q))-e-DC = -20 + (10(1-e-200)+20)e-200t-2) 当七子· Uc(3)=一面10(e-100-11)+10e-100000(1-e-200) 当tE(3,+10) (1c(10)=0 (1C= Uc(10) + (Uc(3)- (1c(10)) e-10) $= [20(e^{-100}-1)+loe^{-100}(1-e^{-200})]\cdot e^{-100(t-3)} V (te(3.tv))$ $: U_c = \{0, t^{c}(-100, 0)\}$ 10(1-e-100t)V, tE(0,2) --20+(1011-e-200)+201e-100(t-2) tG(2,3) x -20+30e-100 [20(e-100-1) tloe-100(1-e-200)).e-100(t-3) V tG(3,t04) 4 -20 p-100(t-3)

12). Uc= lo(1-e-toot).(E(t)-E(t-2))+ (20+30e-too(t-2))(E(t-2)
+ (-20e-100(t-3)). E(t-3)
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