d.11a_(\$17.8-3). Resonanta tensmillor an cire. RIC-Jenie Pay, 77-78. 1) Respitularea formeletr circ RIC-serve 2). Regimente rinc KLC-sentetur.a. u=Ugrzsincot 3) Conditia de rezonanto (XL=Xe, U=Ve) Lu=Um'siewt. 4) Val-manimila canoderistice la resonanta 1 Vm=VervE 5). Factorel de calitale/suprofensione, Q=1, \[= \frac{2}{R}. (Tef= Vy = 0,707 Vu Uc / UL=1.XL 1) - Recapitularea formulelos circ. RLC-serie in re.a. 1= Up+ly+uc. u = Umsin(wit+ys) =U (ec tensmin , forma MR = Up Sin wt = iRsin wt=Vol Up=I.R tensimily ... L=ULStutet+ (2)=1XLStutet+1/2)= UL Fazorii asociati: | Me=Ucsin(lot-11)=T.Xesin(nit-11/2)=Te U, Up, UL, Ue UR=1.R; U=1XL=1.wL; Ue=1Xe=1/wc U= UR+ UL+UE fU2=U2+(UL-Ve) the Pitagora 1 XL=WL=27DL 2 Xc=1/wc=1/27DC U2 = 12R2 + ([X_-1X_c)2 = 12(R2+(X_-X_c)2] U=iVR2+(X-Xc) ->[I=U/Z=U/VR2+(X-Xc)] tgφs = (UL-Ue) = 1:XL-1:Xe = (XL-Xe) = ωL-1/ωC 1:R = (XL-Xe) = ωL-1/ωC 2) Regimentée de functionare als cinc. RIC-serié inca. a) - reg. inductive => XL>Xc=> col>4/wc > w> The - b) - regonanta tensimily > X_=Xc; WoL=/woc -> (UL=UC) c) -regimel espacifiv. => XL<Xe; WL</We> (3) Condition de Resonanto. Resonanta fencionin cinc. RIC-sente in co UL=UC/UL=1XL=1wL; = VR2+Xe=1R2=R -1X=1Xe=1/wC TG=21VLC] φ=0. |X_=Xc] -> wL = 1/wC form Thomson. · w= 1/LC > w= TEC 7 Er = R. MCU; W=211D | 12= (211) = 211 VLC |

(4)-Valorile marinilre caracteristice la resonanto RC-serie. TL=Vc, X=Xe, Z=R, wL= 1 (i= = = = = 0 ; U=Ue>Ue ; to = = = 0 -> == 0 | Wo = 1/Le |, | Do = 20 = 20 | > To = 1/20 = 20 = 20 | LC freventa la rez. peníoado ese la rezonanto pulsatia la rez. (5)-Factorul de calitate/supratensiune, Q Q def (UL) def (Uc) w=w= => Q - (1/X_L) = (Ir/X_e) inde: in=[U/R] = = Q = (\frac{\text{V}}{R}, \frac{\text{Wol}}{\text{V}}) = [\frac{\text{V}}{R}, \frac{\text{V}}{\text{Wol}}] dici Q = wol = The R = LVE Sau. Q = 1 , 1 = 1 VLC = 1 = 1 VLC, dice factorel de calitate/suprotensime, are acciasi vol. Zo = VE = Zo R Zo = VE > supedantee catacheritics: 是=六 Obs 1).-La repousata teurimilia. Reg. inductiv , Reg. capacitiv. ay - impedouta este minino, ≥== R b) - enrental de ref. este moxin, Ip=1/2 c) - reachontele si tensmile mut egale Curta de sejouanta RIC 3 bulsatia, fracrenta, penoda depind. & reg. caroctenistice

Touch. Vie, V= 27/Vie To=21/Vie

Touch. Vie 1 = 27/Vie To=21/Vie deci (UL=UC)>U curental I = U/R de ref. este en atat mai mare en cat presente en cat R-este mai unic, (vezi euroele de rezonanta)