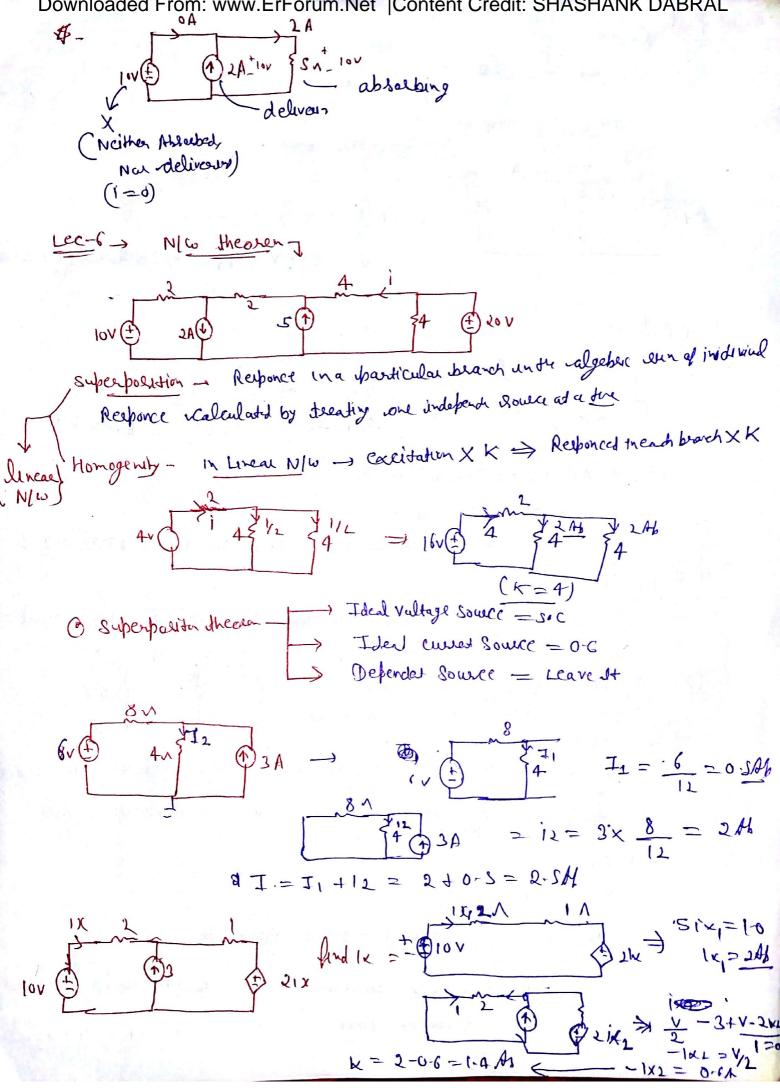


Downloaded From: www.ErForum.Net |Content Credit: SHASHANK DABRAL (2) Dependent source - VCVS Ke VI ( The Voltage / cuered of - VC(S -> AKVL dependent Succe - KA CCVJ- AKI Acbends on other - & cces - 2> Cht parameter, A KIL lec-3] K(L)  $j = \frac{1}{14} \frac{1}{14}$ KVL - () + V x - +V-] , VC = V = VR+VL+VC = de = dol + dul + duc J=C = V = VR+VL+VC = de = dol + dul + duc L follow of Lov of energy Conservation. [] = WR+WL+WC Source transformation ] VS D B Source JS A JS = VS Téalfornation JS A VS = JS KS Source VS A VS = JS KS Tealfornatu VS A VS = JS KS IS ( RS B Star della trafferction Stor-Delta -> Giver - 2A72B, 2C To ford - Z1, ZL, ZJ  $ZI = (ZA + ZB) + \frac{ZAZB}{ZC},$  $Z_{1} = (2(+Z_{f}) + \frac{2(Z_{f})}{Z_{A}})$  $Z_{3} = (2A+2c) + \frac{2A2c}{2A}$ Delta to star I Gim Z1, Z2, Z3, Tapad = 2A, ZB, ZC 2B=ZIZL ZC=Z121 ZA = Product of known ZIZ3 Total lun ZHZHZS 2+22+23 24+22+23

Nodel Analysis 
$$\frac{1}{3}$$
  $\frac{1}{3}$   $\frac{1}{3}$   $\frac{2}{3}$   $\frac{5-2}{1} = \pm 0.6$   $\sqrt{\frac{44-L9}{R}}$   
 $\frac{-2V}{3}$   $\frac{-5V}{3} = -\frac{2-(-5V)}{1} = \pm 3.6$   
 $\frac{2}{3}$   $\frac{V}{4}$   $\frac{4}{12}$   $\frac{1}{2}$   $\frac{1}{2}$ 



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 $L = \sqrt{Vin} + (R_{L} = R_{L})$ 

the Method to find The worn equivalul

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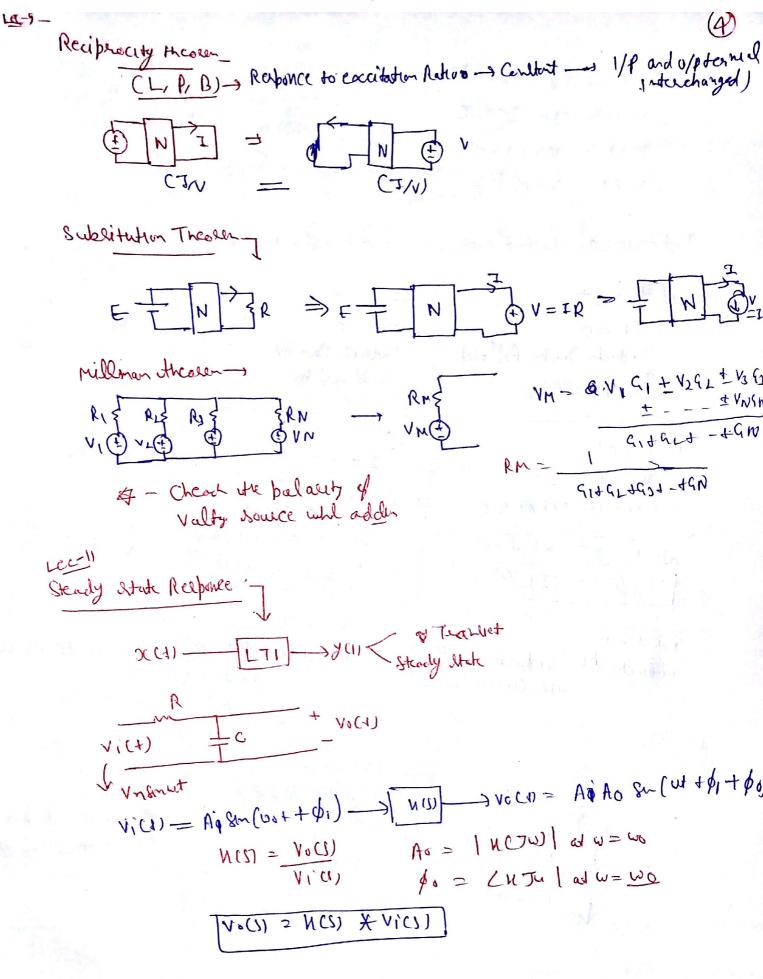
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Call 3  

$$VI \bigoplus_{RS} RL \rightarrow I = \frac{VS}{RS+RL} P = I^{1}RL \stackrel{d}{\rightarrow} \frac{VSL}{(RS+RU)L} RL$$

$$(RS - Final dPL = 0 - RL = RI \rightarrow Maxim Power
(RL - Valuable) RL = \frac{VS^{2}}{RL} \xrightarrow{RL} Receive Power
(RL - Valuable) RL - VSL RL - Value Power
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Lect2 $i(t) = Io (1 - e^{-t/z}) \qquad Ourging of inductor i(t) = To e^{-t/z} \qquad Dilebrashing inductor N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = Vo (1 - e^{-t/z}) \qquad Dilebrashing i capaciton N(t) = 0 \qquad Inductor Camby \qquad Inductor N(t) = 0 \qquad Inductor Camby \qquad Inductor N(t) = 0 \qquad Inductor Camby \qquad Inductor N(t) = 0 \qquad Inductor Camby \qquad Sec Cub t = ot V_{L} = 0N(t) = 0 \qquad Inductor Camby I = 0Cabaciton act al. S. CCabaciton But act I = 0^{-1} and I = 0^{-1}I = 0^{-1} and I = 0^{-1} and I = 0^{-1}I = 0^{-1} and I = 0^{-1} and I = 0^{-1}I = 0^{-1} and I = 0^{$	
$V_{L}(4) = V_{0} (1 - e^{-1/L}) \qquad (hughing a f capacity)  V_{L}(4) = V_{0} (1 - e^{-1/L}) \qquad (hughing a f capacity)  Ne haviou al Ly C elevel at t = 0+ and # t = ∞ at t = 0+  TL = 0 There is a construction of the fulled induction of the fulled is for the fulled induction of the fulled is for the fulled induction of the full is of $	i(+) - Io (1-e-+/2) - Charging of inductor
ad $t = 0^+$ TL = 0 The duck Can be Riplaced $Ty$ open Chot Ty open Chot Turdick Can be Riplaced $Ty$ open Chot Turdick Can be Riplaced $Turdick Can be Riplaced Turdick Riplaced Turdick Can be Riplaced Turdick Riplaced Turdick Riplaced Turdick Can be Riplaced Turdick Riplaced Turdick Riplaced Turdick Can be Riplaced Turdick Riplaced Turdick Riplaced Turdick SourceTurdick Riplaced Turdick SourceTurdick SourceTurdi$	V((1) = VO(1-e-1/2) Cherging at Capaciton
$ \begin{array}{c c} IL = 0 \\ Inducta Can be Ruhlaced  By open clot   \begin{array}{c c} VL = 0 \\ Induct Can by \\ Replaced by \\ S-c \\ \hline \\ cut = 0 \\ Cabacita actals.c \\ cabacita actals.c \\ cabacita actals.c \\ \hline \\ cabacita \\ \hline \\ (IL(5) = IL(0t)) \\ \hline \\ full = 20 \\ Inducts \\ uin cusses source \\ \hline \\ \\ veltage gowee \\ \hline \\ veltage gowee \\ \hline \\ veltage gowee \\ \hline \\ \\ veltage free ent \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	
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Cul = 0 VC = 0 Cabacith act als: $dt + = 0^{-}$ ad $d = 0^{+}$ $dt = 0^{-}$ $dt = 0^{-}$	Inductor Can be Replaced Induct Can by
ell $\pm = 0^{\pm}$ $V_{C} = 0$ Cabachten act als s.c $at \pm = v^{-}$ at $t = 0^{\pm}$ $at \pm = v^{-}$ at $t = 0^{\pm}$ $T_{L}(0) = T_{L}(0^{\pm})$ $for \pm 20$ Inductor baselled $V_{C}(0) = V_{C}(0^{\pm})$ $for \pm 20$ Inductor baselled $V_{C}(0) = V_{C}(0^{\pm})$ $for \pm 20$ Inductor baselled $V_{C}(0) = V_{C}(0^{\pm})$ $for \pm 20$ $V_{C}(0) = V_{C}(0^{\pm})$ $V_{C}(0) = V_{C}(0^{\pm})$ $V_{C}(0$	S-C
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for $t \ge 0$ Inductor parallel for $t \ge 0$ Inductor parallel Cabacita Melerics uites user cuesses source valtage source Lec-U DC Teransient Source free chet with Source uiter Jource Responces Mithel $t = 0t$ Are 0 < t < $\infty$ conditions L RL CH and find $t = \infty$	
Lee-U DC Terancient Source freecht ERC an DC Terancient With Source Multi- Nomice Responces Mital #=ot a-d find #=ot Aug 05+5 colondetus	for + 20 for + 20 holds inductor bardled Capacitu Aublace Capacitu M loris indu
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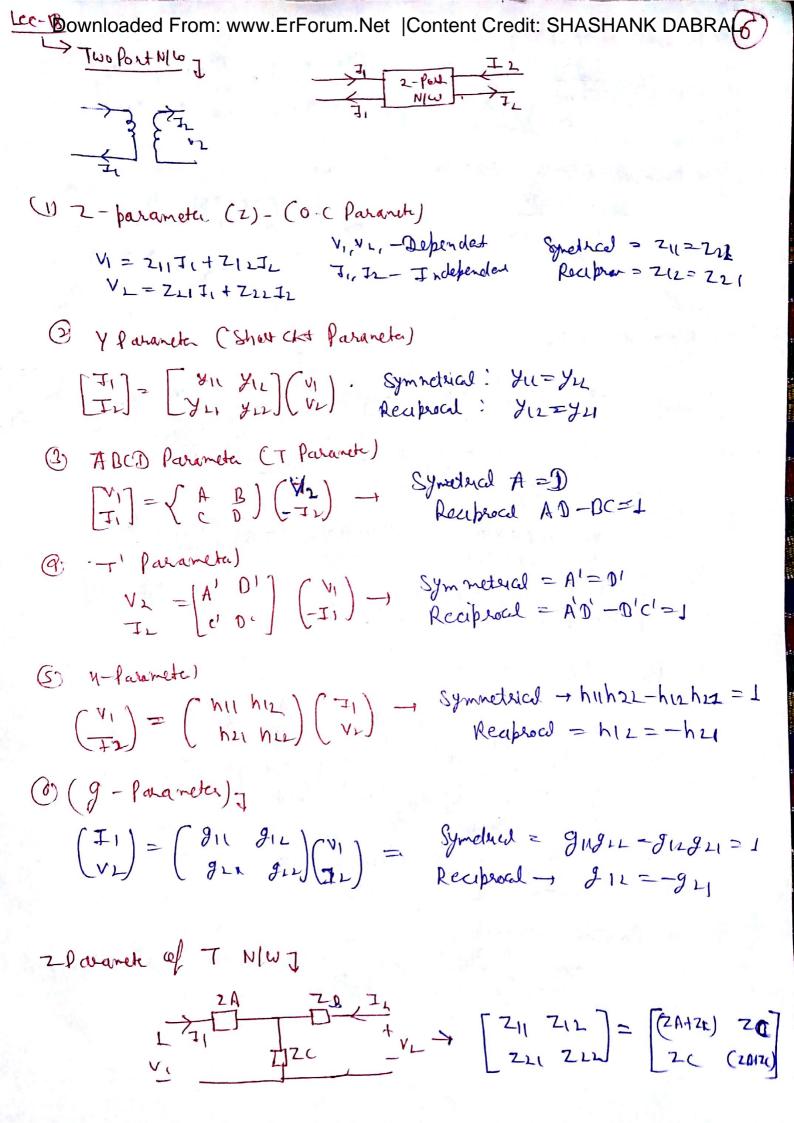
E

Downloaded From: www.ErForum.Net |Content Credit: SHASHANK DABRAL DC transver Cource free RL N/W)-(1) at = t=04 N/W - Steady State - (Inducto - S.C) () at += 0 - Sware disconnected Inducto And Current source (JLO=JLOt) 3 A+ +20 ichi= Joetiz L3 @Jo - equavillent chis C=2 Lear ( DC translet ( Source Prec RC Cri) J 0 – at t=0- > N/w-Steady Stek > (Capacitor - 0-C) (i) at +20 - Source differmented Capoelta Report valdy source (Veot = Veo) 16 VCCN = Voe-HT ZZRC - Replace Capacity by \_\_\_\_ cquardad chet do for vecty. Leets v clo)

(19)-

With Smile J  
With Smile J  
With al t=0t and final 
$$t=\infty$$
  
Solvedy state ( Capacita - 0-C  
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 $J = TL(0') = TL(0+) = 0$  ( Inductor - 0-C)  
 $J = TL(0') = TL(0+) = 0$  ( Inductor - 0-C)  
 $J = VC(0') = VC(0+) = 0$  ( Cabacita - S-C)  
 $VC(0') = VC(0+) = 0$  ( Cabacita - S-C)  
 $VC(0') = VC(0+) = 0$  ( Cabacita - Vallegesource)

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(1) With do were Responded for 
$$0 \leq 4 \leq \infty$$
 Condition ----  
(2) If N/W Catain Leverd Source 1 down dreath, several indum-  
when [IL(t) = IL( $\infty$ ) + [IO - IL( $\infty$ )] c #C office  
(2)  $\Rightarrow$  If are be vere - if Reprinductor, is Reflaced by Capach  
[Ve(t) = Ve( $\infty$ ) + [Ve( $0$ ) - Ve( $\infty$ )] e #C of the  
[Ve(t) = Ve( $\infty$ ) + [Ve( $0$ ) - Ve( $\infty$ )] e #C of the  
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RL, Re - net reposed - Laflere dealers appear app

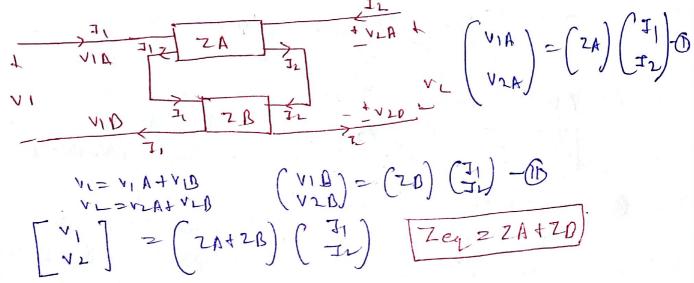


Downloaded From: www.ErForum.Net |Content Credit: SHASHANK DABRAL Y Parameta of 7-N/27

	[Yn	Y15]	= [ YA+YC	-40
VI WA WO TL	421	Ye L	$= \begin{bmatrix} y_A + y_C \\ -y_C \end{bmatrix}$	YBI
V. The VL	L			

T Parameter of 10 month L-

(i) Server Connection -



$$\frac{1}{1} Pavallel Connection > \frac{1}{14} + \frac$$

Downloaded From: www.ErForum.Net |Content Credit: SHASHANK DABRA AC Analyses 7 12010 7 = 20200 = (10) 2-15 2415 = (2) - RASVelue 20(20 0 1 325 Adahe Rrisvalue 1 Inack=file = fxx102-15 = 102-15 When nothin 12 mention } Vi = 20Col (loot + 30) V1=20601 (  $V = \frac{20}{20} + \frac{1}{10} + \frac{1}{10} = 0$ (100+42) (riethod -1) V = 4 @ 256.56 JI = V = 2 d E [S(.54) = 2 [SCA (100+ + B) S(-SC)]02 20(al 100t V-70 720 4 1 4 1 20 RASValue ( Medhed-2) Take V= 20TOLSGSC i= JTOLSG-SC Lam 1 Max = 1 an x d L = d 20 [ SG. J 6 = 25 LJFJ  $e(a+b) \rightarrow ALe \rightarrow A = da^{2}+b^{2}$   $e = ta^{-1}b/q$  $\rightarrow$  ALO  $\rightarrow$  (a+bi)  $\rightarrow$  a = ACola b = ASino ( Palar - Rectangular Conversion) Bullated Doint · - when nothing is given about exception then always taken that value On uneventue C- when only counciled in in in in the Carl as pel. G\_ when both sive, Carere Decitation Mare have have feeg is given the taken anyone as Ref. and a make other as same Ref. () - when both sine and Coller excitate haven diff. Frey it given the ranky superpeter theore can be applicable.

Lec - 21 -

Server RL Chi-  

$$V \bigoplus_{k=1}^{n} V_{k} = IR, V_{L} = JvL + avg = V_{L} = g = h^{-1} \frac{V_{L}}{V_{R}} = \frac{JvL}{V_{R}} \frac{V_{L}}{R}$$
  
Seen RE EV  
 $\int_{V_{L}} V_{L} = JvL + V_{R} = I = \left| \frac{Tg}{V_{R}} \right|^{L+30} \int_{V_{R}} V_{R} \frac{V_{R}}{R} \frac{I}{V_{R}} \frac{V_{R}}{R} \frac{I}{V_{R}} \frac{V_{R}}{R} \frac{I}{V_{R}} \frac{V_{R}}{R} \frac{I}{V_{R}} \frac{V_{R}}{R} \frac{I}{V_{R}} \frac{V_{R}}{R} \frac{I}{V_{R}} \frac{V_{R}}{R} \frac{I}{R} \frac{I}{R$ 

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anallel resonance
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Find out aff Flen
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2 Re = 16112414
$\Im \omega = \omega_2 - \omega_1 = \frac{1}{RC} = \frac{\omega_0}{\omega_0} = \frac{1}{4\pi c^{-1}}$
Lec-2S
Magnetically Coupled cht -
Call-1
$V_1 = L_1 di_1 + n di_2$ $V_2 = L_1 di_2 + n di_1$ dt $dt$ $dt$ $dt$ $dt$ $dt$
Call 2-1,
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$\rightarrow \frac{1}{12} = \frac{1}{12} \operatorname{Lil_1^2 + \frac{1}{12} L_2 i 2^2 + n i 1 n}$
K=M: JUL2 K=1 - N=JUL2 - Jightly Coupled
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Lee = LitL2t2M [er= LitL2-2M] _ ] ].
$Le_{4} = L_{1}L_{2}-ML \qquad Le_{4}$ $L_{1}+L_{2}-2M = L_{1}L_{2}-ML$

in the second second

LITLITIN