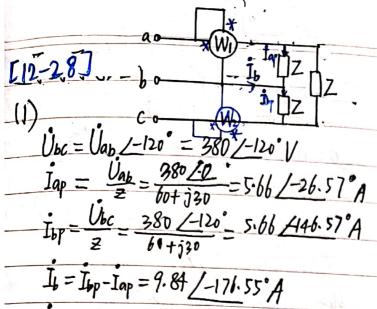
第十二章作业	
[12-8] - U1 + Z1 ji ji Z2	日电客负载吸收的无功劢率
İ [] ₹ ₹1	Q1= BULL =-8000) var
UA = \$\frac{1}{3}\text{UAB } \frac{1-30}{30} = 220 \frac{1-30}{30}	美载复功率 S = (3000 + 3000 fan(arccosso.6)) NA
Z、等效变换为 YHP负载 dzi	= (3000+j4000) V.A
I Ua 220 /-30°	以电源提供的复加率 S= 5+5
Z1+(+3/12) Hj2+12(8+j10)	= (3-j4) KV·A
= 20.89-14.08) = 25.19 /-63.98° A	(3) $\pm (2)$ 004 $y = \frac{5}{\sqrt{3^2+1-41^2}} = 0.6$
	二电源侧的功率因数为0.6.
$= 13.52 / -90.55^{\circ} A$ $= 20 + 5^{10} \times 25.19 / -65.98^{\circ}$	[12-26] is
	B 0 1/2 1/2 1/4 1/9 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4
= 0.57/24.78° x25.19/-64.98°	C o Ic VIby j40/2 3 lbp T 202 202 1202 1202
= 14.35/-39.2°A	
原晚中立= 151_20°=7.8160.55°A 二线路电流 25.1963.98°A	UAN = 13 UAB 1-30 V UEN = \$50 (-150) UCN = 551
	$I_{a_1} = \frac{U_{AN}}{20} = 11.55 \underline{/20^{\circ}A}$
三 对 相 元 7.81 /-60.55 A, Zz 柏 克流 14.35 /-39.2	
[[2-20] B。	$I_{c_1} = \frac{V_{c_1}}{v_{c_1}} = 11.55 / 90^{\circ}A$
12-20 B。	$I_{ap} = \frac{U_{AB}}{40.0} = 10 / 0^{\circ} A$ $I_{bp} = \frac{U_{bc}}{J_{40}} = \frac{400 / 120}{J_{40}} = 10 / 150^{\circ} A$ $I_{cp} = \frac{U_{cA}}{J_{400}} = \frac{400 / 120}{J_{40}} = 10 / 150^{\circ} A$
73 Tc TC TC	T UCA - 400/20 -10/-150 A
11) UAN = 400 LO. V	10p = -1400 = 10 = 11
: İl = UAN = 11.55 190°A	Ia=Ia,+ Iap-Icp= 28.67 /-1.55° A
In = P /4 = 7.2 /-53.13° A	TT. + Tho-In = 28.67/-178.5 A
	Ic= Ic+ Icy-In=1.55 /90 A
IL=In+In= 722 /-53.16'A	
RP IL = 7.22 A	



两瓦特表法的适用条件 (80.52.电阻电吸收一部分功率)

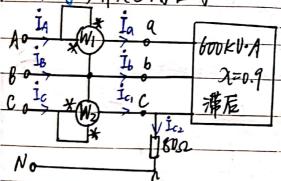
(3) S断开时,两表读数代数和为 负载吸收的有功功率 Pi+B= 3·入=540KW

12) Ubn = Uan/-120° = \$\frac{1}{5}\tilde{U}_{ab} \(\left\)-150° = 220/-150° A

P = 3\tilde{U}_{bn}\tilde{\text{L}}_b \(\cos \left\)-150° + 176.55° = 5809.53 W

(3) 如图

[12-34]11开关5闭合时。



P= S cosy = 540 KW.

由P=13U111 cosy得 I1=55A

- Ia= Ib= Ia = 55A

不妨空 Um= 景 20° KV

P) Uan = 6.3 112 KU

Ic = Ua = 45.47 (120 A. Ic= 45.47 A

Ic= Ic, + Io2 = 100,47 A

= IA=55A, IB=55A, Ic=100.47A

13 不是,此题中 Ia+Is+Is +0,不符后

