

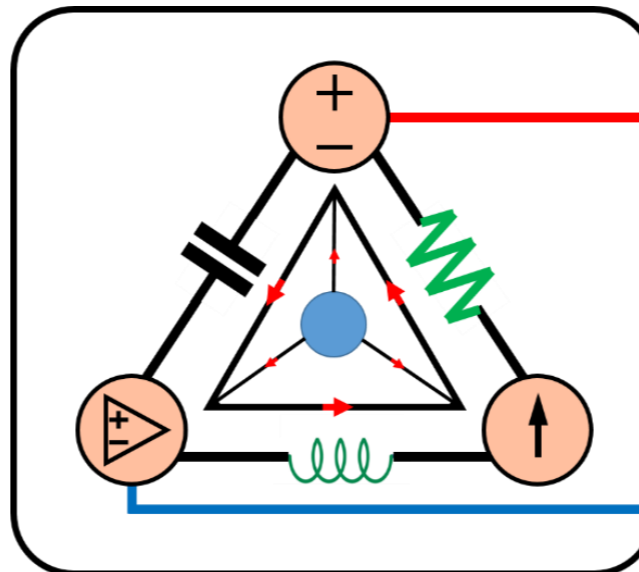
10-Mavzu: Sinusoidal barqaror holat tahlili.

(10th Topic: Sinusoidal Steady-State Analysis.)

10-Mavzu bo‘ycha tekshirish uchun savollarning javobi

(Test answers of the 10th Topic)

*13-hafta uchun
For the 13th week*



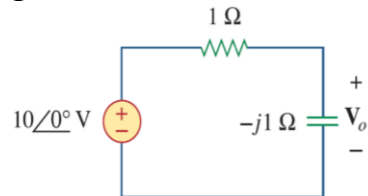
Lecturer: Ph.D., Yusupov Sarvarbek

*Toshkent Kimyo Xalqaro Universiteti
“Mashinasozlik texnologiyasi” kafedrasida
Toshkent shahri, Usmon Nosir, 156-uy.*

TEKSHIRISH UCHUN SAVOLLAR!

10.1. 10.16-rasmdagi kondensatordan o'tuvchi U_o kuchlanishni aniqlang:

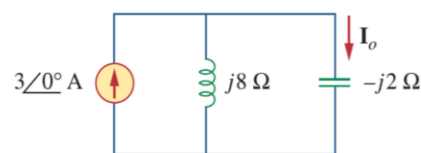
- A) $5 \angle 0^\circ V$.
- B) $7,071 \angle 45^\circ V$.
- C) $7,071 \angle -45^\circ V$.
- D) $5 \angle -45^\circ V$.



10.16-rasm.

10.2. 10.17-rasmda keltirilgan zanjirdagi tok kuchi I_o ning qiymatini aniqlang:

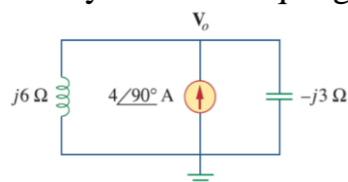
10.17-rasm.



- A) $4 \angle 0^\circ A$.
- B) $2,4 \angle -90^\circ A$.
- C) $0,6 \angle 0^\circ A$.
- D) $-1 A$.

10.3. 10.18-rasmda keltirilgan zanjirdagi U_o ning qiymatini tugun potentsiallar tahlilidan foydalanib aniqlang:

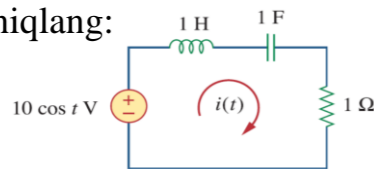
10.18-rasm.



- A) $-24 V$.
- B) $-8 V$.
- C) $8 V$.
- D) $24 V$.

10.4. 10.19-rasmda keltirilgan zanjirdagi $i(t)$ ni aniqlang:

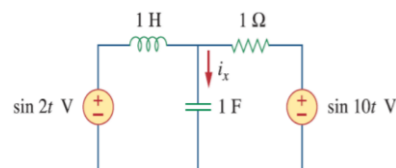
10.19-rasm.



- A) $10 \cos t A$.
- B) $10 \sin t A$.
- C) $5 \cos t A$.
- D) $5 \sin t A$.
- E) $4,472 \cos(t - 63,43^\circ) A$.

10.5. 10.20-rasmdagi zanjirga qarang va ikkita manba bir xil chastotaga ega emasligiga e'tibor bering. Tok kuchi $i_x(t)$ ni quyidagilar orqali olish mumkin:

10.20-rasm.

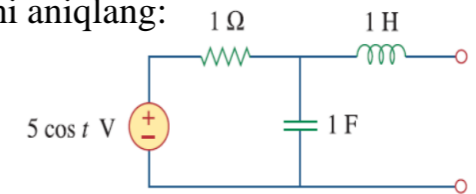


- A) manba transformatsiyasi.
- B) superpozitsiya teoremasi.
- C) Pspice.

10.6. 10.21-rasmda keltirilgan zanjirning $a-b$ terminallaridagi Tevening impedansini aniqlang:

- A) 1Ω .
- B) $0,5 - j0,5 \Omega$.
- C) $0,5 + j0,5 \Omega$.
- D) $1 + j2 \Omega$.
- E) $1 - j2 \Omega$.

10.21-rasm.



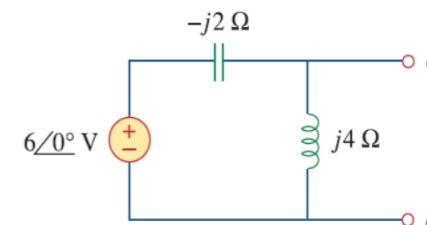
10.7. 10.21-rasmda keltirilgan zanjirning $a-b$ terminallaridagi Tevening kuchlanishini aniqlang:

- A) $3,535 \angle -45^\circ V$.
- B) $3,535 \angle 45^\circ V$.
- C) $7,071 \angle -45^\circ V$.
- D) $7,071 \angle 45^\circ V$.

10.8. 10.22-rasmda keltirilgan zanjirning $a-b$ terminallaridagi Norton ekvivalent impedansini aniqlang:

- A) $-4j \Omega$.
- B) $-j2 \Omega$.
- C) $j2 \Omega$.
- D) $j4 \Omega$.

10.22-rasm.



10.9. 10.22-rasmda keltirilgan zanjirning $a-b$ terminallaridagi Norton tok kuchini aniqlang:

- A) $1 \angle 0^\circ A$.
- B) $1,5 \angle -90^\circ A$.
- C) $1,5 \angle 90^\circ A$.
- D) $3 \angle 90^\circ A$.

10.10. PSpice turli chastotali ikkita mustaqil manbaga ega bo'lgan zanjirni boshqarishi mumkin.

- A) to'g'ri.
- B) noto'g'ri.

TEST JAVOBLARI

Javoblar: 10.1c, 10.2a, 10.3d, 10.4a, 10.5b, 10.6c, 10.7a, 10.8a, 10.9d, 10.10b.

| Savollar | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|----|
| Javoblar (talabaning javoblari) | | | | | | | | | | |
| To‘g‘ri javob | C | A | D | A | B | C | A | A | D | B |
| *To‘g‘ri javobga – 1, *Noto‘g‘ri javobga – 0. $\Sigma =$ | | | | | | | | | | |

***Izoh:** Talaba to‘g‘ri va noto‘g‘ri javoblarga qo‘ygan **1** av **0** sonlarini yig‘indisini hisoblaydi. Hosil bo‘lgan qiymatni quyidagi shkala bo‘yicha solishtirib, mavzuni o‘zlashtirish darajasini bilib olishi mumkin.

Natija Qoniqarli va Qoniqarsiz chiqsa, mavzuni qayta o‘rganishi tavsiya etiladi!!!

“A‘lo”: 9-10 _____

“Yaxshi”: 7-8 _____

“Qoniqarli”: 5-6 _____

“Qoniqarsiz”: 0-4 _____