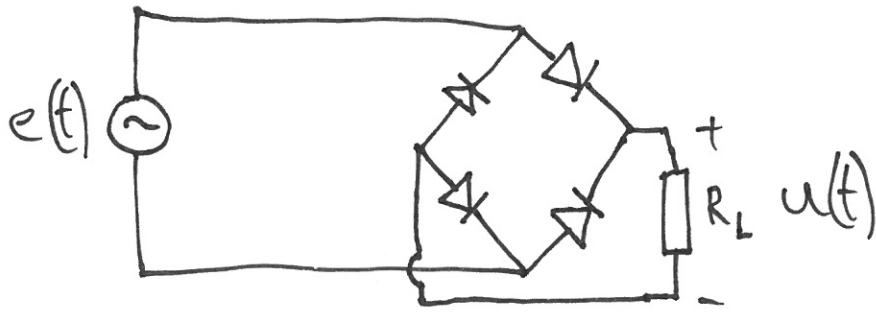


D-18) Likriktarbrygga (Graetz brygga): (s. 276 boken)



$$U_L = \frac{1}{T} \cdot \int_0^T u(t) dt = \frac{2}{T} \int_0^{T/2} 220\sqrt{2} \cdot \sin \omega t dt =$$
$$\left| T = \frac{2\pi}{\omega} \right| = \frac{2\omega}{2\pi} \cdot \int_0^{\pi/\omega} 220\sqrt{2} \cdot \sin \omega t dt =$$
$$= 220\sqrt{2} \cdot \frac{\omega}{\pi} \cdot \left[ -\frac{\cos \omega t}{\omega} \right]_0^{\pi/\omega} = \frac{220\sqrt{2}}{\pi} \left( -\cos \pi + \cos 0 \right) =$$
$$= \frac{220\sqrt{2} \cdot 2}{\pi} = 198 \text{ V}$$

$$I_L = \frac{U_L}{R_L} = 19.8 \text{ A}$$

$$U_L = 198 \text{ V}$$

$$I_L = 19.8 \text{ A}$$