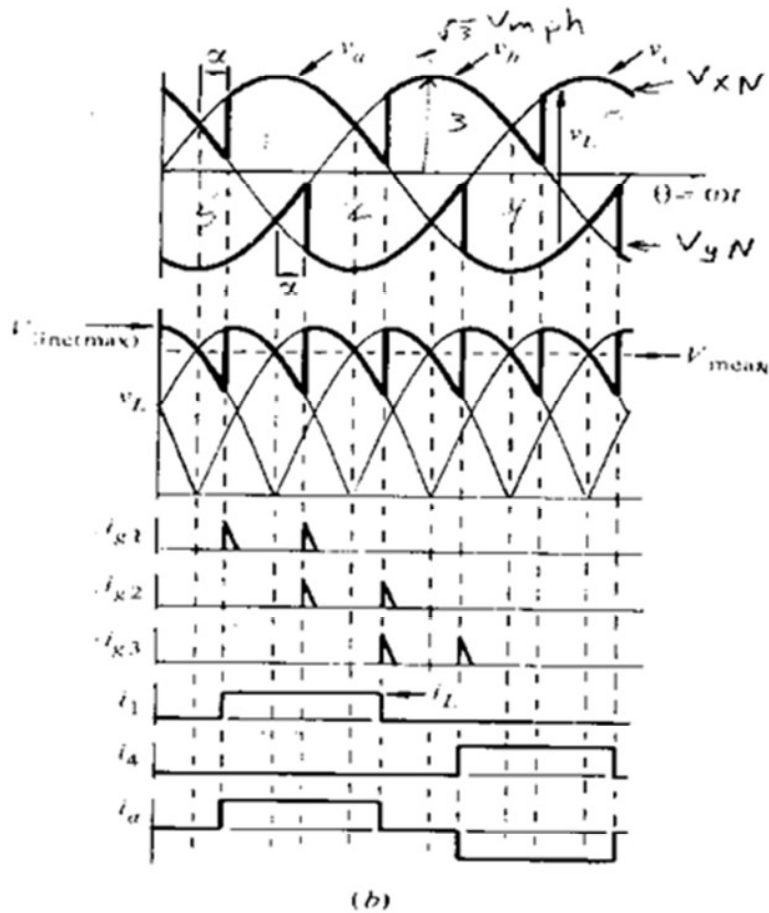
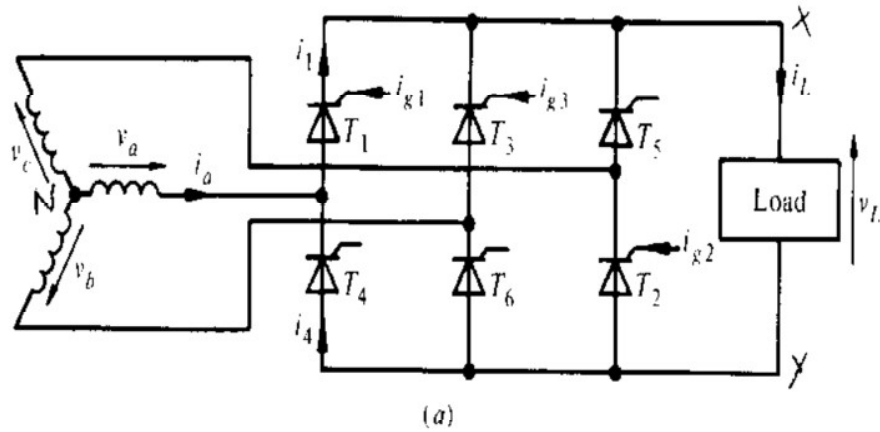


3-4 Three phase bridge controlled rectifier



$$V_{mean} = \frac{1}{2\pi} \int_{\frac{\pi}{3} + \alpha}^{\frac{2\pi}{3} + \alpha} V_{m \text{ line}} \sin \theta d\theta = \frac{3V_{m \text{ line}}}{\pi} \cos \alpha$$

Fig.(15) Three phase bridge controlled circuit using thyristors