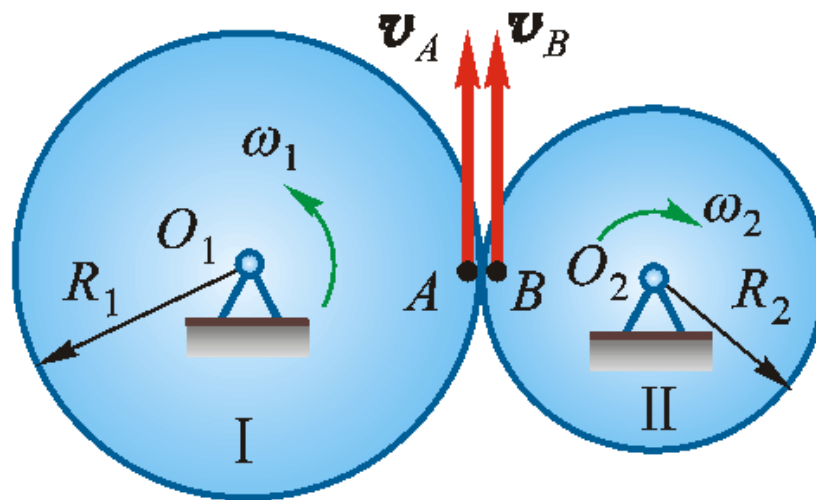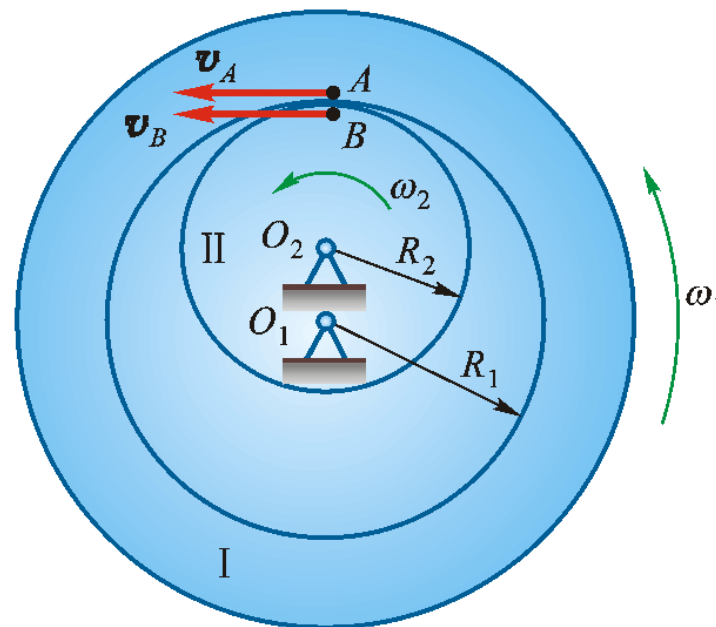# 4、轮系传动比

轮系的传动比

齿轮传动

啮合条件

$$R_1\omega_1 = v_A = v_B = R_2\omega_2$$

传动比
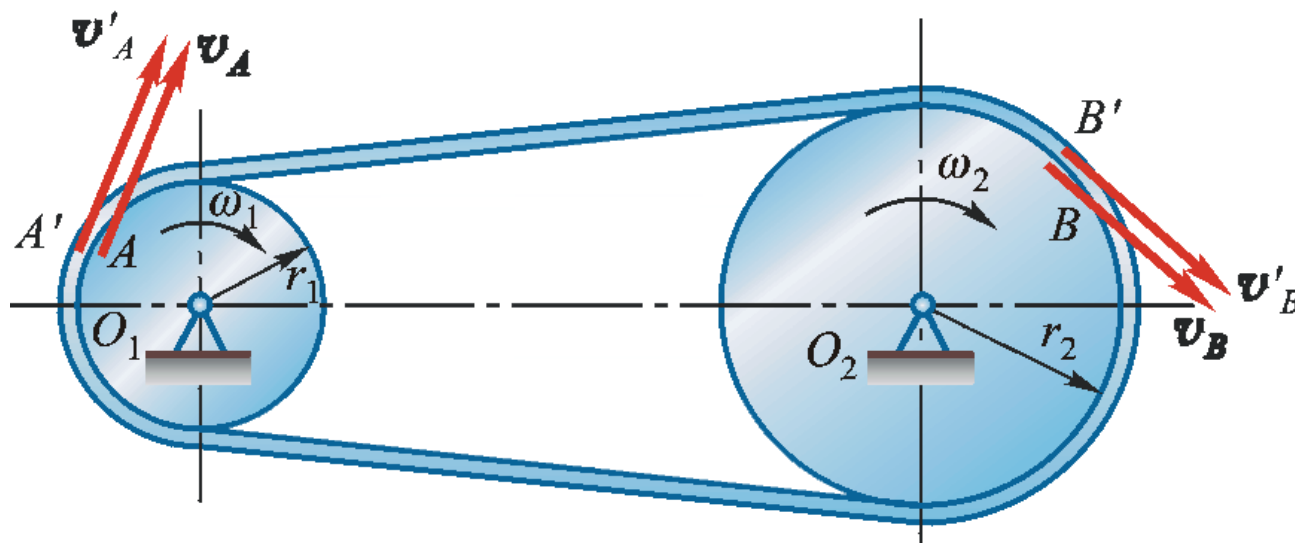
$$i_{12} = \pm\frac{\omega_1}{\omega_2} = \pm\frac{R_2}{R_1} = \pm\frac{z_2}{z_1}$$

带轮传动

$$r_1\omega_1 = v_A = v'_A = v'_B = v_B = r_2\omega_2$$

$$i_{12} = \frac{\omega_1}{\omega_2} = \frac{r_2}{r_1}$$