

$$\sin x \cdot \cos y = \frac{1}{2} [\sin(x+y) + \sin(x-y)] \text{ 이 관계에 따라}$$

$$P_c = I_s \cdot A \cdot \cos(\beta - \alpha) \cdot \frac{1}{\frac{1}{2} [\sin(2\phi + \beta - \alpha) - \sin(\beta - \alpha)]}$$

$$\therefore \frac{dP_c}{d\phi} = I_s \cdot A \cdot \cos(\beta - \alpha) \cdot \frac{0 - \frac{1}{2} \cos(2\phi + \beta - \alpha) \cdot 2 \cdot 1}{1 \quad I^2} = 0$$

$$\therefore \cos(2\phi + \beta - \alpha) = 0$$

$$\therefore 2\phi + \beta - \alpha = \frac{\pi}{2} \quad (2.22)$$