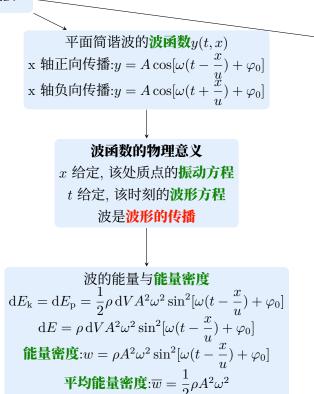
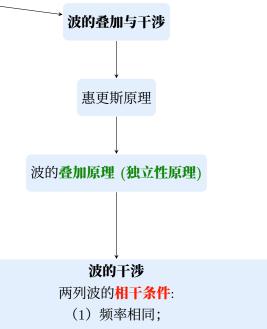
波线, 波面, 波前





波的能流(波的功率) 和能流密度(波强) 能流 $p=wu\Delta S$ 平均能流 (波的功率): $\bar{p}=\overline{w}u\Delta S$ 能流密度(波强): $I=\overline{w}u$ (单位W/m²) 简谐波的波强: $I=\frac{1}{2}\rho A^2\omega^2 u$



- (2) 相位差恒定;
- (3) 振动方向相同.

干涉加强(干涉相长):

$$\Delta \varphi = (\varphi_{20} - \varphi_{10}) - 2\pi \frac{r_2 - r_1}{\lambda} = \pm 2k\pi \quad (k = 0, 1, 2, \cdots)$$
干涉减弱 (干涉相消):

$$\Delta \varphi = (\varphi_{20} - \varphi_{10}) - 2\pi \frac{r_2 - r_1}{\lambda} = \pm (2k+1)\pi \quad (k=0,1,2,\cdots)$$