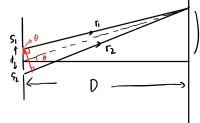
812-2

1. 原子发射的炎波是一段频率-色,振功方的-定、有限长 的光波 部立为光波到

2. 相干光:两束光振动频率排同,振动方向和排往差恒定 812-3

1. 双缝干涉:



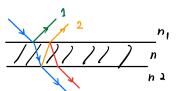
波於差: S=r2-r1 = dsino & do & d tono

2. 半波损失:从光的→光亮,A耐角 i = °°/%°时. 百舸光相往转入射光亮3 页

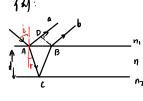
8 12-4

1. 光祥差· 笔以 S=n·x. n为折射率. 双为光线实际路经长 -> plin = 228

2. 反射光排位臭爱和附加炎程差:



182210分有付加加亿元 九(pp p(thon光程是 全)



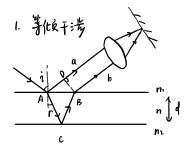
花 a. b 光视克.

$$S = n(Ac + cB) - nAD$$

但又有門的光社社会

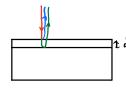
$$\rightarrow S = 2d \sqrt{n^2 + n_1^2 \sin^2 i} + \frac{\lambda}{2}$$

§ 12-5.



由前的外  $S = 2d \int_{\mathbf{n}^2 - \mathbf{n}_i^2 \sin^2 i} + \frac{\lambda}{2}$ 5 S= KX 产生明季何 (沙川) 产生的多点 中间部外部稀疏.

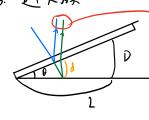
2. 增过膜: 流少反耐气



利用 11 抵消.

$$2nd = (k+\frac{1}{2})\lambda \Rightarrow dmin = \frac{\lambda}{4n}$$

3. 避兴膜:



> 产生干污, 当为传专打种时近似的  $\int_{0}^{\infty} \int_{0}^{\infty} dt dt \frac{\lambda}{2}$   $\int_{0}^{\infty} \int_{0}^{\infty} dt \frac{\lambda}{2} dt \frac{\lambda}{2}$ 

! 
$$l \sin \theta = \frac{\lambda}{2} \approx l \frac{D}{\ell}$$

并破私

$$r^{2} = (R^{2}) - (R - d)^{2} = 2Rd - d^{2} (Rmd)$$

$$\approx 2Rd$$

$$\therefore d = \frac{r^{2}}{2R} \quad \text{if} \quad \begin{cases} p \\ p^{2} : 2d + \frac{\lambda}{2} = k\lambda \end{cases}$$

$$\therefore d = \frac{r^{2}}{2R} \quad \text{if} \quad \begin{cases} p \\ p^{2} : 2d + \frac{\lambda}{2} = (k + \frac{1}{2})\lambda \end{cases}$$

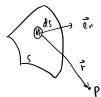
$$\Rightarrow \begin{cases} p \\ p^{2} : 2d + \frac{\lambda}{2} = (k + \frac{1}{2})\lambda \end{cases}$$

$$\Rightarrow \begin{cases} p \\ p^{2} : 2d + \frac{\lambda}{2} = (k + \frac{1}{2})\lambda \end{cases}$$

$$\Rightarrow \begin{cases} p \\ p^{2} : 2d + \frac{\lambda}{2} = (k + \frac{1}{2})\lambda \end{cases}$$

812-7.

1. 惠更斯-菲涅耳库证:波在行播过程中从同一波阵面上各 点发出的分波,经传播而在空间中某些扫遍时,产生相干参加。

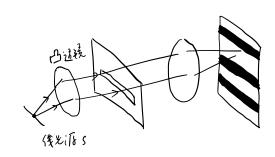


福福大小:

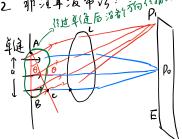
$$dE = C \cdot \frac{\alpha(Si) + (0)}{r} \cos \left[ \left( \omega t - \frac{2\lambda r}{\lambda} \right) + \phi_0 \right]$$

812-8

1. 单链的失破未费衍射:



2 菲涅耳波带湾: 有线精的分散



0 按证纸册角

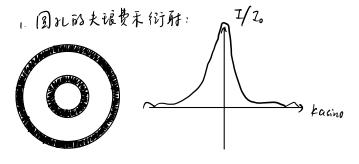
Bc= a sin 0 → 即为西東光光社 義

拉全部强面。每一个会中总有机对方的主

-> 其先程光总光 · 抑抑两者恰扣消 当年健可的为佛教下之时,完全抵满,Pshikix \_ \_ - 专数广台时, 初色. 网络红

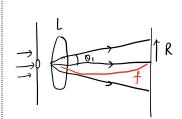
asino= ±2k 3 nf & nota asin0= = = (2k+1) 会 -- 遠は

£ 12-9.



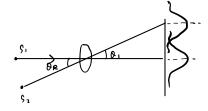
计算表例, SinO1=0.61 = 1-22分

r为图孔丰经. d为重经. 0.为第一风烙环 锁钳角



R=ftan O, (ナカダなる) = 1-22 2 f. (p= sino = tg t)

2 光学似器的引擎本领



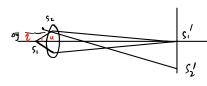
(in01=1.21 } 201=0R

记 R= 10 表文化器分辨本领

遊送後:  $R = \frac{1}{\theta R} = \frac{1}{1-22} \frac{d}{\lambda}$ 

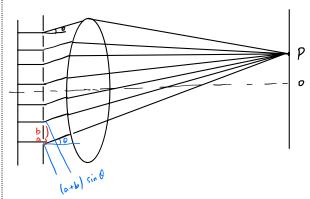
星维统:  $\Delta y = \frac{0.61 \, \lambda}{n \, \text{sinu}}$  n为4か方打射率. u为n价为4分存

$$R = \frac{1}{\text{oy}} = \frac{\text{n sinu}}{\text{oy fl}}$$



812-10

1. 名柳衍甜:



成分

成图·O各个狭缝处在

同一波阵面上 柳柳两缝 发射光光光和学→形本于济

②各个狭缝形成衍射, 透过透镜

后完全重合

2. 名栅方程;

(a+b) sin0=±比 → 克住 k=0 表氣中间克纹。

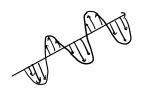
3. 铁级

若0同时满足

 $\begin{cases} (a+b) \sin \theta = k\lambda & (32 + k) \\ \Rightarrow k = \frac{a+b}{a} k', \quad \text{这一似是"缺失的" 当入射角 } i = i_B H. 及射光为完全偏振知 \\ a \sin \theta = k'\lambda & (24 使情况) \end{cases}$ 

812-12

1. (多人的报名/年南人的报:细花一个方向上才成功

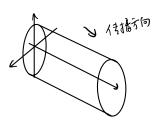


2. 商控义:有所有初的振动、分布复名对称

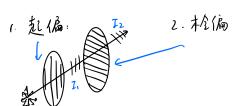


3. 部分偏振:

4. 国偏振与丰富偏振



812-13.



2. 3品期这律

J2 = Z1 COS立、よ为西方向夫南

\$ 12-15.

1. 布倫斯特爾:  $tanig = \frac{nz}{n}$  时.

