1. 对于一维双原子维 W=BMm [1±[]- 4mM sinaq]生了 光学波Wmax = 2BMm = 6.70X6135-1 Wmin = 3 = 35.99 x/6 135-1 盖学波:Wmax 二强:3.00×/0155-1 b) Emax=tr Wangx=4.41x/oTeV Emm=tr Wamin=3.94x/oTeV 声: Smax=tr Wamax=1.97x6eV (C) 经限: naux= (如) = 0.222 周望 nmin=0.279 高学设: naux= (如) = 0.876 (d)) = 271(Wmax = 28.1 µm 7. $\Delta \mathcal{R}$ $\int_{0}^{\omega} g(w) dw = \frac{1}{2\pi^{2}} \left(\sqrt{3} + \sqrt{3} \right) w^{2} dw = \frac{2V}{2\pi^{2} c^{3}} w^{2} dw$ 强设 V, V之波数相等 $W_{m} = \left[\frac{181\sqrt{\pi^{2}}}{V}\left(\frac{1}{\sqrt{3}} + \frac{2}{\sqrt{3}}\right)^{-1}\right]^{\frac{1}{3}} = 16\pi\sqrt{\sqrt{3}}$ Uo = (um of the g (w) dw = & Nth um