COURSE: Concrete Mathematics recurent problem exercises THEME: chap ! NAME: JHD N纯等价于3条/,但是每划3条/就换关5个区域 1.13 T(n) = T(n-1) + (3n-2) + (3n-1) + 3n - 5= T(n-1) + 9n - 8T(n) = T(n-1) + 9n - 8 $T(n-1) = T(n-2) \cdot 61 - 11$ T(n=y= ILT-2) +9(n-1) -8 T(2)= TLN +9.2-8 TUS = TUD +9.1-8 T(0) = 1 :. T(n) = 1 + 9. (1+n)n -8n T(n) = 9n2-11+2 T(0) = 1 T(1) = 2 T(2) = 12 1.14 3点确定17平面 新切面被尽有面影出的子面数 = 新的子块数 : 面与面的扣驳,有且仅为1字系统) 与原药面数 构等的血线在面上形成的子面数(L(n-n)) : P(n) = P(n-1) + L(n-1) P(0) = 1 $L(n) = \frac{n(n+1)}{2} + 1 = \frac{n^2}{2} + \frac{n}{2} + 1$: P(n) = P(n-1) + (n-1) + n-1 +1 P(n-1) = p(n-2) + (n-2), + n-2 + 1 ...= P(1) = P(0) + 0 + 0 + 1 P(n) = 1 $\therefore P(n) = \sum_{i=0}^{n-1} \frac{i(i+1)}{2}, n \ge 1$ P(0) = 1