## 习题三补充讲解(3)

- - (2)  $\beta$  为 Ax = b 的任意解,则  $\beta = \eta + k_1\alpha_1 + \dots + k_r\alpha_r$ , 令  $k_0 = 1 (k_1 + \dots + k_r)$  则有  $k_0\beta_0 + k_1\beta_1 + \dots + k_r\beta_r = (k_0 + \dots + k_r)\eta + k_1\alpha_1 + \dots + k_r\alpha_r = \eta + k_1\alpha_1 + \dots + k_r\alpha_r = \beta$  而  $k_0 + k_1 + \dots + k_r = 1$