

# 425152 固原 俊作

(1) 4s 电子

$$[1s^2][2s^2 2p^6][3s^2 3p^6][3d^{10}][4s^2]$$

$$S = 0.35 + 18 \times 0.25 + 10 \times 1.00 = 25.65$$

$$Z_{\text{eff}} = 30 - 25.65 = 4.35$$

(2) 3d 电子

$$S = 9 \times 0.35 + 18 \times 1.00 = 21.15$$

$$Z_{\text{eff}} = 30 - 21.15 = 8.85$$