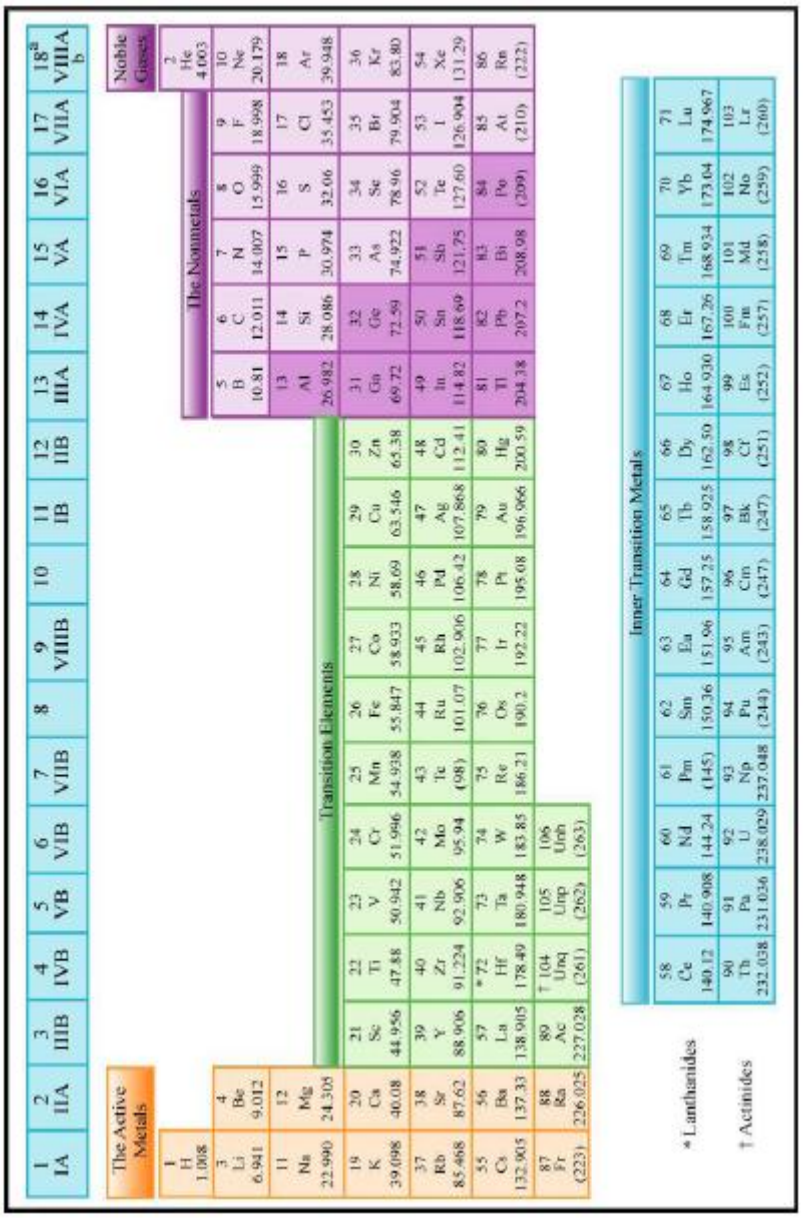

MIT Açık Ders Malzemeleri

$c = 2.9979 \times 10^{8}$ m/s

$h = 6.6261 \times 10^{-34}$ J s

$N_A = 6.022 \times 10^{23}$ mol^{-1}

$m_e = 9.1094 \times 10^{-31}$ kg

$a_o = 5.292 \times 10^{-11}$ m

1 akb = 1.66×10^{-27} kg

$\lambda = h/p$

$R_H = 2.1799 \times 10^{-18}$ J

$\Re = R_H/h = 3{,}2898 \times 10^{15}$ Hz

$E = p^2 / 2m$

$$En = -\frac{Z^2 R_H}{n^2}$$

$$En, l = -\frac{Zetkin^2 R_H}{n^2}$$

1W = 1 J s^{-1}

1 J = 1 kgm^{2} s^{-2}

1 eV = $1{,}6022 \times 10^{-19}$ J

s dalga fonksiyonu için

ROD = $4\pi r^2 \Psi^2 dr$

$n_s < n_i$ …için

$$\nu = \frac{Z^2 R_H}{h}\left(\frac{1}{n_f^2} - \frac{1}{n_i^2}\right)$$

$n_s > n_i$ …için

$$\nu = \frac{Z^2 R_H}{h}\left(\frac{1}{n_i^2} - \frac{1}{n_f^2}\right)$$