

习题 18

18-1 D

18-2 B

18-3 A

18-4 1.005, 2.67

18-5 2 eV; 2 V; 29600Å

18-6 1.78 eV; $9.47 \times 10^{-28} \text{ kg} \cdot \text{m/s}$; $3.16 \times 10^{-36} \text{ kg}$

18-7 $1.70 \times 10^6 \text{ m/s}$

18-8 $0 \sim 1.72 \times 10^{-19} \text{ J}$

18-9 555 nm

18-10 1.06 V

18-11 略

18-12 $2.84 \times 10^{-19} \text{ J}$, $9.47 \times 10^{-28} \text{ kg} \cdot \text{m/s}$, $3.16 \times 10^{-36} \text{ kg}$;
 $7.96 \times 10^{-15} \text{ J}$, $2.65 \times 10^{-23} \text{ kg} \cdot \text{m/s}$, $8.84 \times 10^{-32} \text{ kg}$;
 $1.60 \times 10^{-13} \text{ J}$, $5.33 \times 10^{-22} \text{ kg} \cdot \text{m/s}$, $1.78 \times 10^{-30} \text{ kg}$;

18-13 0.0732 nm, 0.0756 nm

18-14 0.10 MeV

18-15 (1) $8.69 \times 10^{-11} \text{ m}$; (2) $1.66 \times 10^{-35} \text{ m}$