

- 28** To observe diffraction rings by a carbon film, a beam of electrons is accelerated from rest across a potential difference of  $V$  so that the de Broglie wavelength of the electrons is  $1.0 \times 10^{-10} \text{ m}$ .

What is the value of  $V$ ?

- A** 90 V                      **B** 150 V                      **C** 270 V                      **D** 330 V