5. . An electron is accelerated through a particle accelerator and then ejected through a diffraction grating. By means of the diffraction experiment, it is determined that the electron’s de Broglie wavelength is 6.6 x 10-10 m. What is the electron’s linear momentum? Use Planck’s constant, h = 6.6 x 10-34 J Â· s. (A) 1.0 x 10-44 kg Â· m/s (B) 1.0 x 10-24 kg Â· m/s (C) 1.0 x 10-24 kg Â· m/s (D) 2.0 x 10-24 kg Â· m/s (E) 1.0 x 1044 kg Â· m/s