

#6.7)

Bohr's procedure for quantizing the energy of circular orbits for a potential $U(r)$ consists of using the equation $mv^2/r = \frac{\partial U}{\partial r}$, applying the quantization condition $mvr = n\hbar$, and applying the equation for the total energy.

If $U(r) = Fr$, where $F > 0$, follow Bohr's procedure to find the energy spectrum for circular motion.