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NOTES AND SOLUTIONS TO THERMAL PHYSICS BY CHARLES KITTLE ...

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The energy is $\epsilon = \frac{2\pi^2 h^2 K}{2m} \frac{h^2 P}{m a} \dots$ (b) At $k = \pi/a$ the determinantal equation is $(P/Ka) \sin Ka + \cos Ka = -1$. In the same limit this equation has solutions $Ka = \frac{\pi}{2} + \dots$, where \dots . We expand to obtain $(\dots) \dots = \dots$, which has the solution $\dots = 0$ and $\dots = 2P/\dots$.

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