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8 2. Problem 8.1. Apply the
variational method to
estimate the ground state
energy of a particle.
confined in a one-
dimensional box for which V

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$\psi(x) = 0$ for $x < -a$ and $x > a$, and $\psi(x) = A \cos(kx)$ for $-a < x < a$. (a) First, use

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the level between
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rather than the more usual
approach using the
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quanta of energy $h \nu$, where
 ν is the frequency of

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radiation. The individual
quanta of light are called
photons. Einstein's
photoelectric equation is
$$h\nu = h\nu_0 + \frac{1}{2}mv^2 \quad (1.4)$$

explained all aspects of
photoelectric effect. In Eq.
(1.4), $h\nu$ is the energy of

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the incident photon, $h\nu_0$ Eugen

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8.4 (b) For a parabolic
trial function we take $\psi(x) = A(a^2 - x^2)$. The

normalization integral is $\int_{-a}^a \psi^2(x) dx = 1$

$$\int_{-a}^a A^2 (a^2 - x^2)^2 dx = 1$$

$$\int_{-a}^a (a^4 - 2a^2x^2 + x^4) dx = \frac{1}{A^2} \int_{-a}^a (a^4 - 2a^2x^2 + x^4) dx = 1$$

$$\frac{1}{A^2} \left[a^4x - \frac{2a^2x^3}{3} + \frac{x^5}{5} \right]_{-a}^a = 1$$

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Beirut HARRY A. MAVROMATIS
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errors in the original edition (many of which were kindly pointed out by reviewers, colleagues, and students) have now been corrected. Additionally the material in the original fourteen chapters has been

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