

**Applied Quantum Mechanics**  
**Homework #12, due Monday April 21, 2008**

**Reading:** Levi, Exercises 8.10

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**Problem 1:** Levi, Problem 8.9

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**Problem 2:** Levi, Problem 8.10

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**Problem 3:** Levi, Problem 8.11

Hint: The perturbation is the change in potential, i.e.  $\hat{W} = -eE$

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