**ELEG 667-010 - Advanced Nanostructure Devices – Fall 2006
Homework #3 - due Friday, 6 October 2006, at 4:00 pm in Dept. office**


1. Problem 2.5 (a) only, in chapter 2, Lundstrom, p. 117 in 2nd edition.  Hint: begin with Eq. (2.1) in text, and use potential $U_{PZ}$ of Problem 2.4.  Make use of equations (2.59d), (2.60), (2.71c) to determine $K_\beta$ and $A_\beta$, producing the given matrix element.  This problem will make you more familiar with notation.


2. Problem 2.6, in chapter 2, Lundstrom, p. 117 in 2nd edition.  Hint: see example on p. 57


Homework assignments will appear on the web at:
http://www.ece.udel.edu/~kolodzey/courses/eleg667f06.html
Note: On each homework and report submission, please give your name, the due date, assignment number and the course number. For full credit - include units/dimensions for all numerical quantities