2.57/2.570   Homework #3, Due 12:30, March 7, 2012

2.57 Problems 3.2, 3.3, 3.4, 3.5, 3.7, 3.8

Read and write a one page report on the paper:

   L. Esaki and R. Tsu, "Superlattice and Negative Differential Conductivity," IBM of

Research and Development, January, 1970, pp. 61-65. You can find it on web. You

may not understand the section in transport properties in this paper but you can see how

they are using a Kronig-Penney type of model to start an important direction in research.

I found the following talk by Esaki gives some interesting background. Please check it:

http://www.jspsusa.org/FORUM1996/esaki.html.

2.570 :   Problems 3.2, 3.3, 3.4, 3.5, 3.7

2.57 / 2.570 Nano-to-Macro Transport Processes
Spring 2012