

Homework V

Due *Wednesday February 13, 2008* by 2 pm.

Reread Chapter 12.

Problems:

1. Estimate the heat transfer on a cold San Diego day through the windshield of your car at rest and driving along the freeway.
2. Read <http://www.gi.alaska.edu/ScienceForum/ASF12/1290.htm> and write a paragraph on the applications of heat transfer to this problem. Discuss the last two sentences of the penultimate paragraph: "... The four inches of fiberglass insulation that surrounds the above-ground pipeline keeps oil warm enough to flow even on the coldest winter days. If the pipeline had to be shut down in the winter, the oil within could sit for several months before congealing."
3. 12.18
4. 12.45
5. 12.54
6. 12.58
7. 12.61
8. 12.66

Quiz III: The third quiz will be on Wednesday February 13. It will be closed book and will cover the material from Chapter 12 of the book.