

Assignment 6

EE 698N, Advanced Semiconductor Physics

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1 Your Question

In this assignment, YOU design a problem based on the topics we have covered in the class. The problem should be sufficiently advanced, and most important, ORIGINAL. You can choose any topic you want on semiconductor physics. Provide a detailed solution to the problem you propose. Keep in mind the following -

- YOU understand the problem and solution.
- I should be able to understand the problem and solution, as should students in a similar class as EE698.
- It should NOT be a “routine” problem! Maintain a sufficient level of difficulty.
- I can use it in future EE698 classes as exam or assignment problems.

You could look at interesting chapter-end problems in textbooks for guidance, but your problem should be original!

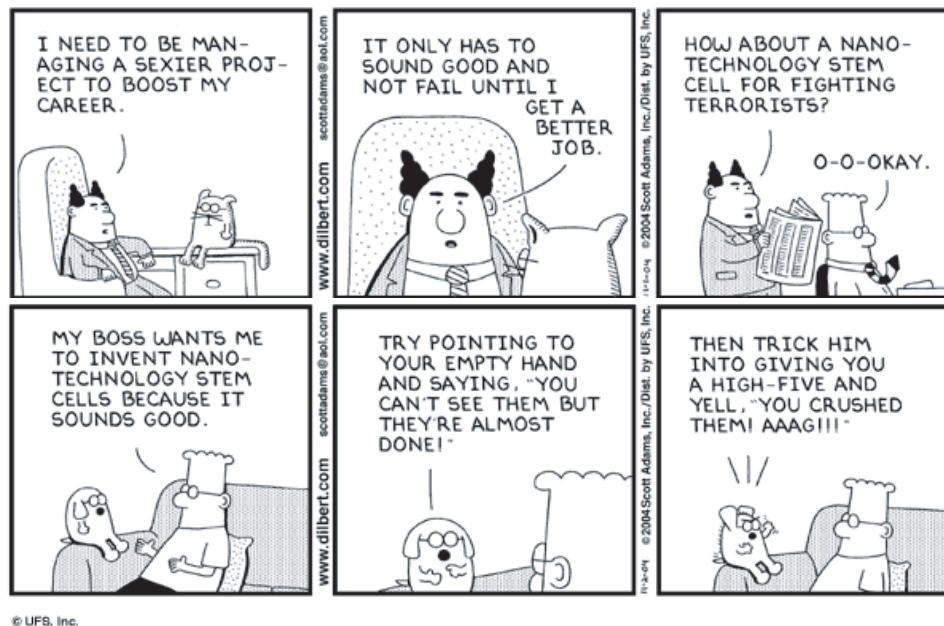


Figure 1: Nanotechnology - Dilbert's view