

Comments on Homework 5 (MSE250)

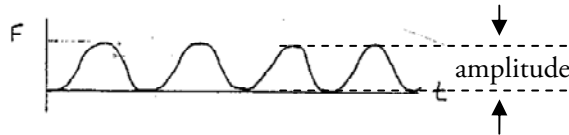
Updated 24 October, 2011

Log Scales

If someone asks you to approximate the value of the dot on the axis shown to the right, and you say 500, you should probably review [how to properly use a log scale](#). I only took off a small number of points if you misread the graph by a small margin of error, but you'd better be sure that you actually know how to properly use a log scale for the future!! (The value of the dot is closer to 300)



Question 4 (cyclic loading): several people used the equations in the book for stress amplitude, max and min stress, etc. Dr. Wynarsky did not ever mention these in class. If you think about it, those textbook definitions don't make much sense for asymmetrical loads (even though Callister does define them for asymmetrical loads). Plus, if you look at the cyclic load you were given in the problem, you can clearly see that the amplitude refers to the complete peak-to-peak load range:



Again, **do not rely on the textbook for definitions:** rely on lecture material and your brain/intuition.